

**Final Report
on the
Mathematical Sciences Research Institute
2018-19 Activities**

**supported by
NSA Grant H98230-18-1-0291**

**Connections for Women: Derived Algebraic
Geometry, Birational Geometry and Moduli Spaces
January 28, 2018 – January 30, 2019**

October 2019

Organizers:

Julie Bergner (University of Virginia)

Antonella Grassi (University of Pennsylvania)

Bianca Viray (University of Washington)

Kirsten Wickelgren (Georgia Institute of Technology)

REPORT ON THE MSRI WORKSHOP, “CONNECTIONS FOR WOMEN: DERIVED ALGEBRAIC GEOMETRY, BIRATIONAL GEOMETRY AND MODULI SPACES, JANUARY 28–30, 2019

1. ORGANIZERS

- Julie Bergner (University of Virginia)
- Antonella Grassi (University of Pennsylvania)
- Bianca Viray (University of Washington)
- Kirsten Wickelgren (Georgia Institute of Technology)

2. SCIENTIFIC DESCRIPTION

This three-day workshop focused on different aspects of Algebraic Geometry relating to Derived Algebraic Geometry and Birational Geometry. In particular the workshop focused on connections to other branches of mathematics and open problems. There were colloquium style lectures, short research talks, a panel discussion, a dinner for the women participants of the workshop and a poster session.

3. HIGHLIGHTS OF THE WORKSHOP

The talks for the workshop were distributed among topics in both Derived Algebraic Geometry (DAG) and Birational Geometry and Moduli Spaces (BGMS).

On the DAG side, Vesna Stojanoska introduced notions of invertibility in increasingly structured kinds of rings, with the objective of introducing Picard spectra, the Brauer group in a spectral context, and the topological modular forms spectrum. The talk was presented from the point of view of homotopy theory, but presented in such a way as to connect to familiar objects in algebraic geometry.

Also coming from a homotopy theoretic perspective, Brooke Shipley spoke about topological coHochschild homology (coTHH), again in increasing levels of sophistication starting from ordinary coalgebras and eventually in the derived settings of spectra and differential graded algebras. Such constructions are becoming increasingly important in derived algebraic geometry.

Inna Zakharevich spoke about an approach to the algebraic K -theory of varieties and a subsequent generalized context for doing algebraic K -theory called CGW-categories. She discussed how classical theorems can be proved in this new context and how one can approach concrete problems in algebraic geometry using these methods.

Wiesława Nizioł gave a talk coming from a number-theoretic perspective on the p -adic cohomology of the Drinfeld half-space. These results highlight the use of derived algebraic geometry to answer questions in number theory.

The short talks were given by postdocs. Inbar Klang talked about topological Hochschild homology and factorization homology, Irina Bobkova spoke about Picard groups in chromatic homotopy theory, and Tina Kanstrup talked about applications of Hilbert schemes to link homologies. Together with the longer talks,

REPORT ON THE MSRI WORKSHOP: CONNECTIONS, JAN 2019

these presentations showed the diversity of problems and methods being used in Derived Algebraic Geometry and thus gave a good introduction to the program.

Montserrat Teixidor y Bigas and Rita Pardini started with broad introduction of classical topics in algebraic geometry and then they proceeded to demonstrate how the study of these topics brings new and surprising approaches to cutting edge investigations in Birational Geometry and Moduli Spaces. Teixidor described how the classical study of points at the intersections of hypersurfaces and curves (the maximal rank conjecture) brings powerful tools to the birational behavior of the moduli space of curves. Rita Pardini considered complex tori which are also projective (abelian varieties), and then she presented new results which bridge algebraic geometry with topology. Lucia Caporaso explored connections between algebraic geometry and combinatorics, through a new analysis of the tropicalization of the moduli space of algebraic curves, spin curves. Carolina Araujo talked about the compactification of moduli spaces of certain (parabolic) vector bundles, she discussed birational properties and relations with del Pezzo varieties.

In the short talks Kristin DeVleming and Julia Rana talked about the boundary divisors of the compactification moduli space of curves and surfaces respectively; they also talked about birational properties related to the compactifications. Laure Flapan talked about monodromies and Kodaira fibrations.

In the exit surveys most of the participants indicated that their interest in the subject matter was increased by the workshop and that the workshop was intellectually stimulating and beneficial. Two comments included “attending is a fantastic experience”, and “I thought the conference was very productive”.

The workshop also included a panel and a poster session.

The panel was formed by Ayelet Lindenstrauss, Claire Voisin, Giulia Saccà, Kathryn Hess, Wei Ho, Kristin Lauter and Susanna Fishel. Kristin Lauter and Susanna Fishel joined the meeting via video-conferencing. The panel included a mix of mathematicians at different stage of their career and different type of institutions, in academia, in industry and both. We polled the participants about possible topics. Out of the answers, the theme “Promoting success of women mathematicians” emerged. In particular, the participants said they wanted to hear suggestions and insights on the following topics:

- mentoring and community building
- career options outside academia
- staying active in research/finding new research directions
- managing the 2-body problem
- balancing service expectations and saying no
- why women tend to underestimate their abilities
- dealing with the feeling that one was selected, for honor, positions, because of the gender, especially now that applications from women are more and more encouraged.

We shared the theme and above topics with the panelists and had some discussions with them before the panel. We heard very positive comments about the panel, In the feedback questionnaire, someone even said it was “the most productive panel discussion that I have been to”.

In summary, the workshop was a valuable experience for the participants and was a good start to the programs for this semester.

Organizers		
First Name	Last Name	Institution
Julie	Berner	University of Virginia
Antonella	Grassi	University of Pennsylvania
Bianca	Viray	University of Washington
Kirsten	Wickelgren	Georgia Institute of Technology
Speakers		
First Name	Last Name	Institution
Carolina	Araujo	Institute of Pure and Applied Mathematics (IMPA)
Irina	Bobkova	Institute for Advanced Study
Lucia	Caporaso	University of Rome, Roma 3
Kristin	DeVleming	University of California, San Diego
Laure	Flapan	Northeastern University
Tina	Kanstrup	Aarhus University
Inbar	Klang	École Polytechnique Fédérale de Lausanne (EPFL)
Wieslawa	Niziol	CNRS, Ecole Normale Supérieure de Lyon
Rita	Pardini	Università di Pisa
Julie	Rana	Lawrence University
Brooke	Shiple	University of Illinois at Chicago
Vesna	Stojanoska	University of Illinois at Urbana-Champaign
Montserrat	Teixidor i Bigas	Tufts University
Inna	Zakharevich	Cornell University

Mathematical Sciences Research Institute

Connections for Women: Derived Algebraic Geometry, Birational Geometry and Moduli Spaces

January 28 to January 30, 2019

Monday, January 28, 2019

9:15AM - 9:30AM	Simons Auditorium		Welcome
9:30AM - 10:30AM	Simons Auditorium	Vesna Stojanoska	Descending Invertibility and the Brauer group of Topological Modular Forms
10:30AM - 11:00AM	Atrium		Tea
11:00AM - 12:00PM	Simons Auditorium	Montserrat Teixidor i Bigas	The maximal rank conjecture and moduli of curves
12:00PM - 2:00PM	Atrium		Lunch
2:00PM - 3:00PM	Simons Auditorium	Kristin DeVleming, Laure Flapan	Research Discussion
3:00PM - 4:00PM	Atrium		Tea
4:00PM - 5:30PM	Simons Auditorium		Panel Discussion

Tuesday, January 29, 2019

9:30AM - 10:30AM	Simons Auditorium	Brooke Shipley	Topological coHochschild homology for coalgebras
10:30AM - 11:00AM	Atrium		Tea
11:00AM - 12:00PM	Simons Auditorium	Inna Zakharevich	Decompositions of varieties, birationality, and K-theory
12:00PM - 2:00PM	Atrium		Lunch
2:00PM - 3:00PM	Simons Auditorium	Rita Pardini	Birational geometry of varieties of maximal Albanese dimension
3:00PM - 4:00PM	Atrium		Tea & Poster Session
4:00PM - 5:00PM	Simons Auditorium	Inbar Klang, Julie Rana	Research discussions
5:00PM - 7:00PM	MSRI		Dinner at MSRI

Wednesday, January 30, 2019

9:30AM - 10:30AM	Simons Auditorium	Wieslawa Niziol	p-adic cohomology of the Drinfeld half-space
10:30AM - 11:00AM	Atrium		Tea
11:00AM - 12:00PM	Simons Auditorium	Lucia Caporaso	Tropicalizing moduli spaces of algebraic curves and spin curves
12:00PM - 2:00PM	Atrium		Lunch
2:00PM - 3:00PM	Simons Auditorium	Carolina Araujo	Moduli spaces of parabolic vector bundles on P^1 and a special family of Fano varieties
3:00PM - 4:00PM	Atrium		Tea & Poster Session
4:00PM - 5:00PM	Simons Auditorium	Irina Bobkova, Tina Kanstrup	Research Discussions



Participants		
First Name	Last Name	Institution
Eric	Ahlqvist	Royal Institute of Technology (KTH)
Valery	Alexeev	University of Georgia
Jarod	Alper	University of Washington
Benjamin	Antieau	University of Illinois, Chicago
Carolina	Araujo	Institute of Pure and Applied Mathematics (IMPA)
Emelie	Arvidsson	École Polytechnique Fédérale de Lausanne (EPFL)
Kenny	Ascher	Princeton University
Arend	Bayer	University of Edinburgh
Julie	Bergner	University of Virginia
Harold	Blum	University of Utah
Irina	Bobkova	Institute for Advanced Study
Madeline	Brandt	University of California, Berkeley
Lukas	Brantner	Merton College, University of Oxford
Jennifer	Brown	University of California, Davis
Dylan	Butson	Perimeter Institute of Theoretical Physics
Samir	Canning	University of California, San Diego
Lucia	Caporaso	University of Rome, Roma 3
Cinzia	Casagrande	Università di Torino
Chang-Yeon	Chough	Institute for basic science
Federico Cesare Giorgio	Conti	Università di Pisa
Tommaso	de Fernex	University of Utah
Kristin	DeVleming	University of California, San Diego
Elena	Dimitriadis Bermejo	Université de Toulouse III (Paul Sabatier)
Coleman	Dobson	University of California, Los Angeles
Yajnaseni	Dutta	Northwestern University
Barbara	Fantechi	International School for Advanced Studies (SISSA/ISAS)
Si	Fei	Fudan University
Laure	Flapan	Northeastern University
Marco	Franciosi	Dipartimento di Matematica
Netanel	Friedenberg	Yale University
Antonella	Grassi	University of Pennsylvania
Christopher	Hacon	University of Utah
Jeroen	Hekking	Royal Institute of Technology (KTH)
Lauren	Heller	University of California, Berkeley
Milena	Hering	University of Edinburgh
Kathryn	Hess	École Polytechnique Fédérale de Lausanne (EPFL)
Michael	Hill	University of California, Los Angeles
Wei	Ho	University of Michigan
Katrina	Honigs	University of Utah
Giovanni	Inchiostro	Brown University
Elham	Izadi	University of California, San Diego
Lena	Ji	Princeton University
Chen	Jiang	Kavli Institute
Tina	Kanstrup	Aarhus University

Participants		
First Name	Last Name	Institution
Changho	Keem	Seoul National University
Oscar	Kivinen	University of California, Davis
Inbar	Klang	École Polytechnique Fédérale de Lausanne (EPFL)
Sándor	Kovács	University of Washington
Nikolas	Kuhn	Stanford University
Alicia	Lamarche	University of South Carolina
Dae-Won	Lee	Yonsei University
Kyoung-Seog	Lee	Institute for basic science
Jennifer	Li	University of Massachusetts Amherst
Ayelet	Lindenstrauss	Indiana University
Yuchen	Liu	Yale University
Ariane	Mézard	Sorbonne University
Diletta	Martinelli	University of Edinburgh
Akhil	Mathew	University of Chicago
Krystal	Maughan	Glendale City College
Enrica	Mazzon	Imperial College, London
David	Mehrle	Cornell University
Nina	Morishige	University of British Columbia
David	Morrison	University of California, Santa Barbara
Ian	Morrison	Fordham University
Tasos	Moulinos	Centre National de la Recherche Scientifique (CNRS)
Takumi	Murayama	University of Michigan
Mircea	Mustață	University of Michigan
Wieslawa	Niziol	CNRS, Ecole Normale Supérieure de Lyon
Morgan	Opie	Harvard University
Sebastian	Ørsted	Aarhus University
John	Ottem	University of Oslo
Tudor	Padurariu	Massachusetts Institute of Technology
Rita	Pardini	Università di Pisa
Sam	Payne	University of Texas
Alexander	Perry	Columbia University
Michelle	Pinharry	University of Minnesota, Twin Cities
Massimo	Pippi	Université de Toulouse III (Paul Sabatier)
Ali	Rajaei	Tarbiat Modares
Ritvik	Ramkumar	University of California, Berkeley
Julie	Rana	Lawrence University
Sam	Raskin	University of Texas, Austin
Emanuel	Reinecke	University of Michigan
Fatemeh	Rezaee	University of Edinburgh
Giulia	Sacca'	Columbia University
Brooke	Shiple	University of Illinois at Chicago
Angelica	Simonetti	University of Massachusetts Amherst
Chiara	Spagnoli	Università di Pisa
Martin	Speirs	University of Copenhagen

Participants		
First Name	Last Name	Institution
Florian	Sprung	Arizona State University
David	Stapleton	University of California, San Diego
Vesna	Stojanoska	University of Illinois at Urbana-Champaign
Tao	Su	École Normale Supérieure
Libby	Taylor	Stanford University
montserrat	teixidor i bigas	Tufts University
Sebastian	Torres	University of Massachusetts Amherst
Burt	Totaro	University of California, Los Angeles
Charlotte	Ure	Michigan State University
Yakov	Varshavsky	The Hebrew University of Jerusalem
Gabriele	Vezzosi	Università di Firenze
David	Villalobos Paz	Princeton University
Bianca	Viray	University of Washington
Isabel	Vogt	Stanford University
Chengxi	Wang	Rutgers University
Shouhong	Wang	Indiana University
Madeleine	Weinstein	University of California, Berkeley
Craig	Westerland	University of Minnesota Twin Cities
Kirsten	Wickelgren	Georgia Institute of Technology
Yixian	Wu	University of Texas, Austin
Chenyang	Xu	Massachusetts Institute of Technology
Qingyuan	Xue	Peking University
Inna	Zakharevich	Cornell University
Aline	Zanardini	University of Pennsylvania
Yingyu	Zhang	University of North Texas
Yan	Zhou	University of Texas, Austin
Thomas	Zielinski	University of Oxford

Officially Registered Participants Information

Participants		115
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Gender		115
Male	51.30%	59
Female	48.70%	56
Declined to state	0.00%	0

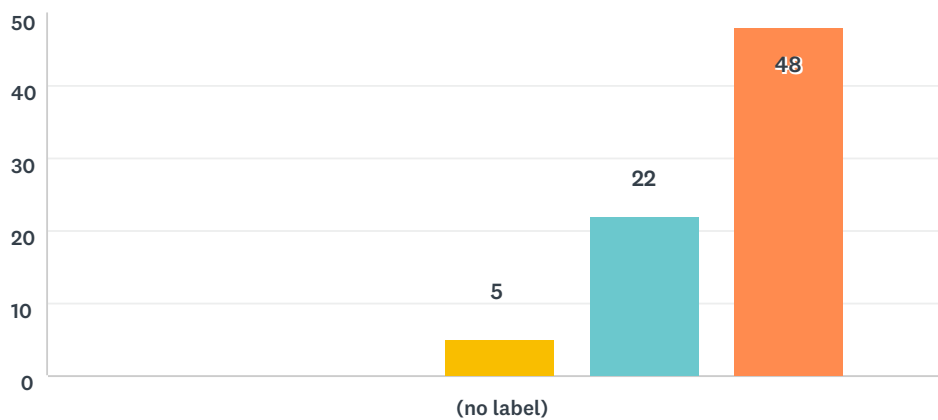
Ethnicity*		127
White	66.14%	84
Asian	21.26%	27
Hispanic	3.15%	4
Pacific Islander	0.79%	1
Black	0.00%	0
Native American	0.00%	0
Mixed	4.72%	6
Declined to state	3.94%	5

* ethnicity specifications are not exclusive

75 responses out of 115 participants = 65% response rate

Q1 The workshop was intellectually stimulating

Answered: 75 Skipped: 0

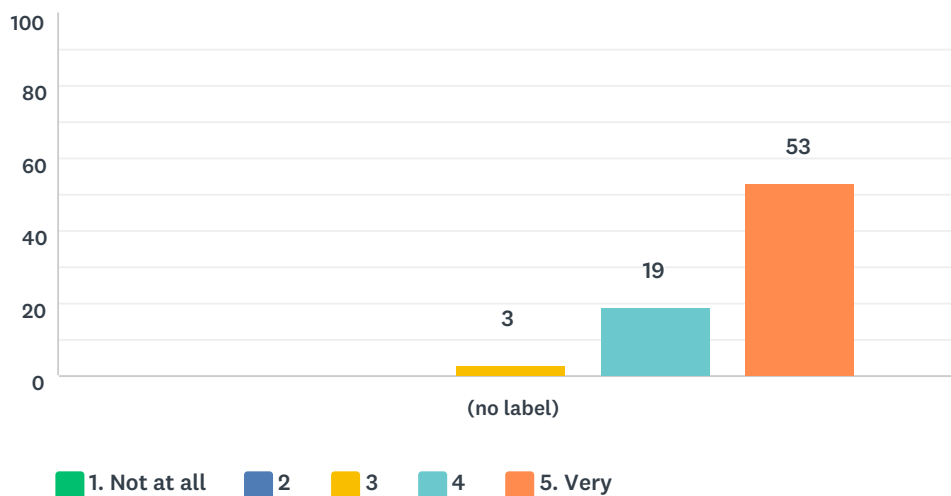


1. Not at all 2 3 4 5. Very

	1. NOT AT ALL	2	3	4	5. VERY	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	0.00%	6.67%	29.33%	64.00%	75	4.57
	0	0	5	22	48		

Q2 The overall experience of the workshop was worthwhile

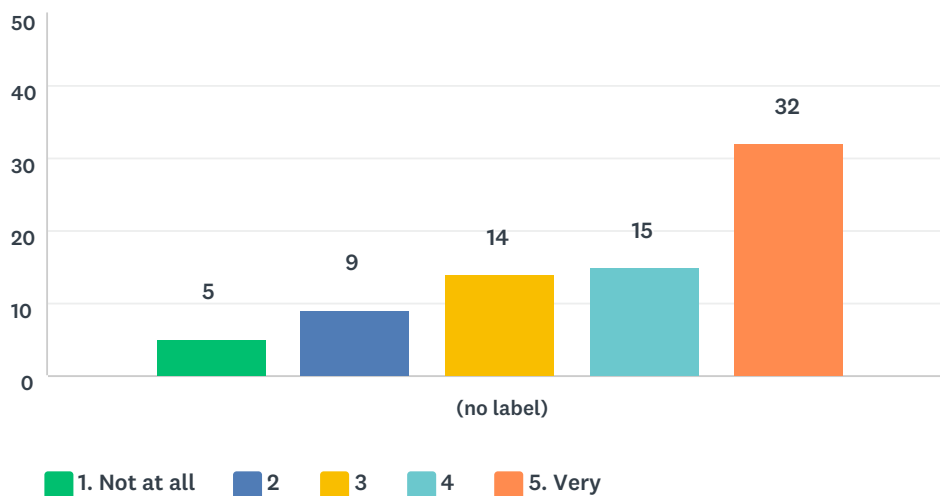
Answered: 75 Skipped: 0



	1. NOT AT ALL	2	3	4	5. VERY	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	0.00%	4.00%	25.33%	70.67%	75	4.67
	0	0	3	19	53		

Q3 Having a joint workshop for the two programs was beneficial

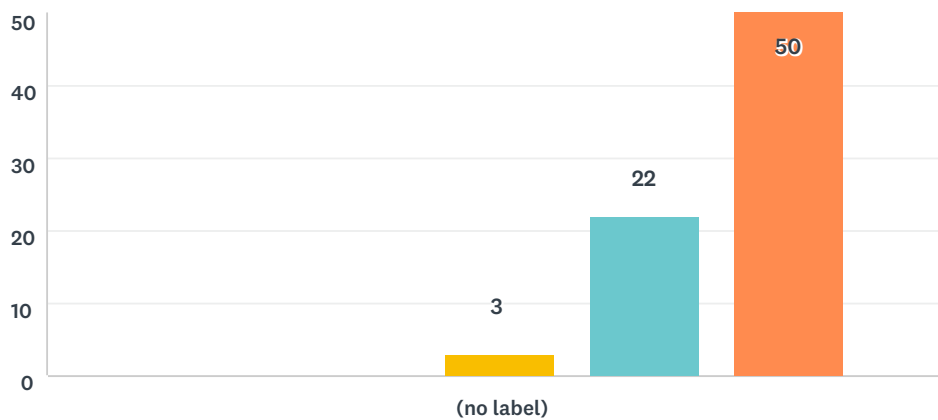
Answered: 75 Skipped: 0



	1. NOT AT ALL	2	3	4	5. VERY	TOTAL	WEIGHTED AVERAGE
(no label)	6.67%	12.00%	18.67%	20.00%	42.67%	75	3.80
	5	9	14	15	32		

Q4 The time between lectures was adequate for discussion

Answered: 75 Skipped: 0

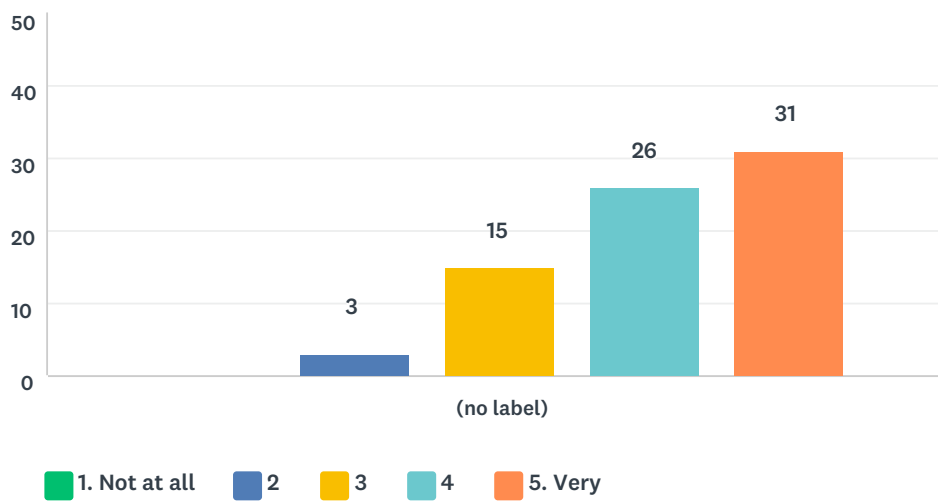


■ 1. Not at all
 ■ 2
 ■ 3
 ■ 4
 ■ 5. Very

	1. NOT AT ALL	2	3	4	5. VERY	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	0.00%	4.00%	29.33%	66.67%	75	4.63
	0	0	3	22	50		

Q5 The poster session was beneficial

Answered: 75 Skipped: 0



	1. NOT AT ALL	2	3	4	5. VERY	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	4.00%	20.00%	34.67%	41.33%		
	0	3	15	26	31	75	4.13

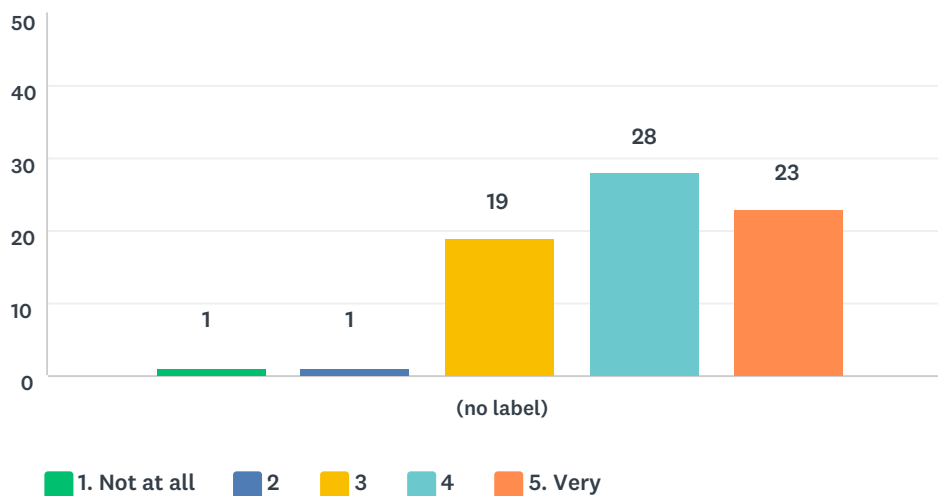
Q6 Additional comments

Answered: 11 Skipped: 64

#	RESPONSES	DATE
1	Keep it up! These things are great!	2/19/2019 8:14 PM
2	There were a lot of participants, and because of this I found it hard to talk to people that I didn't already know.	2/19/2019 11:08 AM
3	It would be great to have food options beyond the food trucks. There is a huge wait when there is a large line.	2/6/2019 11:52 AM
4	I had an fantastic experience attending the MSRI Connections for Women (Birational Geometry, Moduli Spaces, and Derived Categories) Conference. I met a lot of mathematicians and had many great conversations. And of course, I learned a lot of math! It was also my first time presenting a math poster, and I'm happy it was here, where so many great mathematicians were present. I am very grateful that I had the opportunity to be a part of this conference.	2/5/2019 9:27 PM
5	I think it was great to have both classical algebraic geometers and homotopy theorists/ derived algebraic geometers at the event!	2/3/2019 6:36 PM
6	I think combining the two workshops made one feel more isolated / incompetent because they did not understand half of the talks.	1/31/2019 1:10 PM
7	This was my first time at MSRI/ attending a workshop and I LOVE THIS PLACE! Hope to come back soon for more :D	1/31/2019 9:00 AM
8	This is my first workshop that has a gender perspective to it, and I loved it. Not only it was great not being the only woman in the room, but also the panel discussion motivated some great discussions and gave some really good points. Also, I don't know if it's related to the fact that there are two "fields" on the same program, but I feel like almost all the lectures were understandable, even those who were most definitely not in my field of study. It was an overall great experience.	1/30/2019 10:06 PM
9	In future years, I think it would be better to start the introductory workshop at the beginning of the week, and then if it takes 7 days have the Connections for Women happen AFTER that. The rationale is: if people can come for two weeks, they don't care about the order. If people can come only for the Connections for Women, ditto. But if people can come only for one week, they would prefer the beginning of the introductory workshop rather than the end, I would guess.	1/30/2019 7:58 PM
10	I thoroughly enjoyed > 4 talks. I retained interesting and new information from them. I thought the conference was very productive. Also the most productive panel discussion that I have been to.	1/30/2019 6:14 PM
11	it will be much better to provide free shuttle bus.	1/30/2019 5:06 PM

Q7 I was well prepared to benefit from the lectures

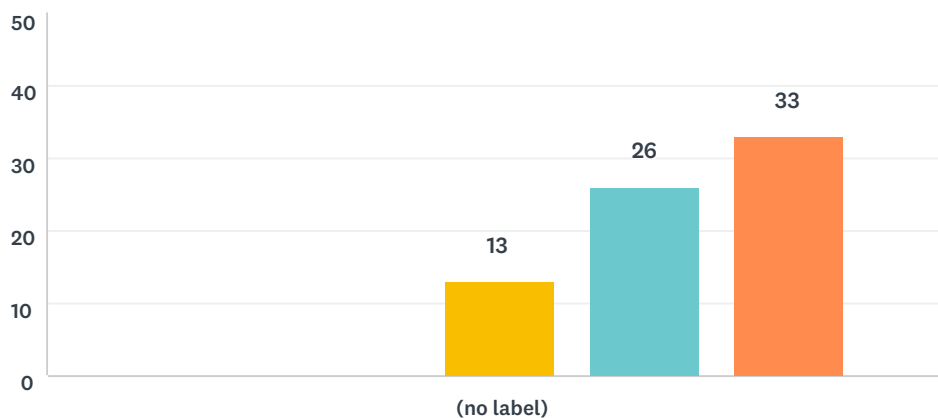
Answered: 72 Skipped: 3



	1. NOT AT ALL	2	3	4	5. VERY	TOTAL	WEIGHTED AVERAGE
(no label)	1.39%	1.39%	26.39%	38.89%	31.94%		
	1	1	19	28	23	72	3.99

Q8 My interest in the subject matter was increased by the workshop

Answered: 72 Skipped: 3

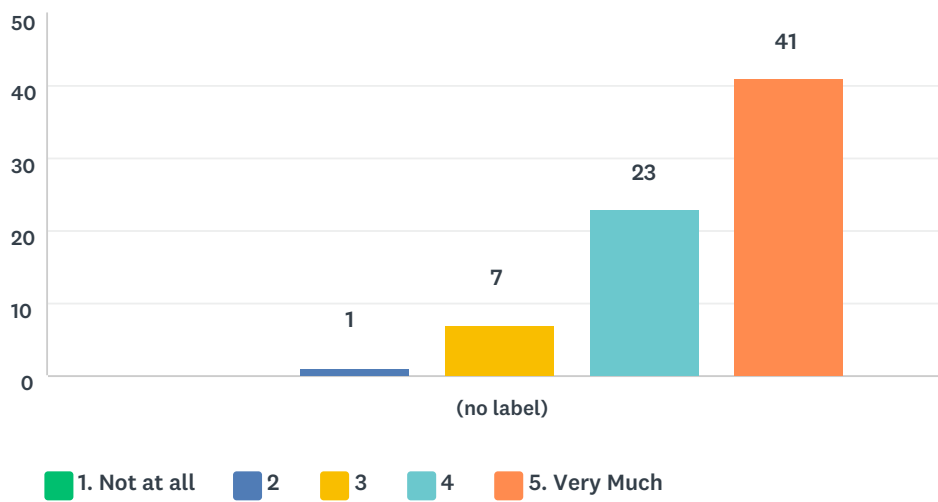


1. Not at all 2 3 4 5. Very

	1. NOT AT ALL	2	3	4	5. VERY	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	0.00%	18.06%	36.11%	45.83%		
	0	0	13	26	33	72	4.28

Q9 The workshop helped me meet people with similar scientific interests

Answered: 72 Skipped: 3



	1. NOT AT ALL	2	3	4	5. VERY MUCH	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	1.39%	9.72%	31.94%	56.94%	72	4.44
	0	1	7	23	41		

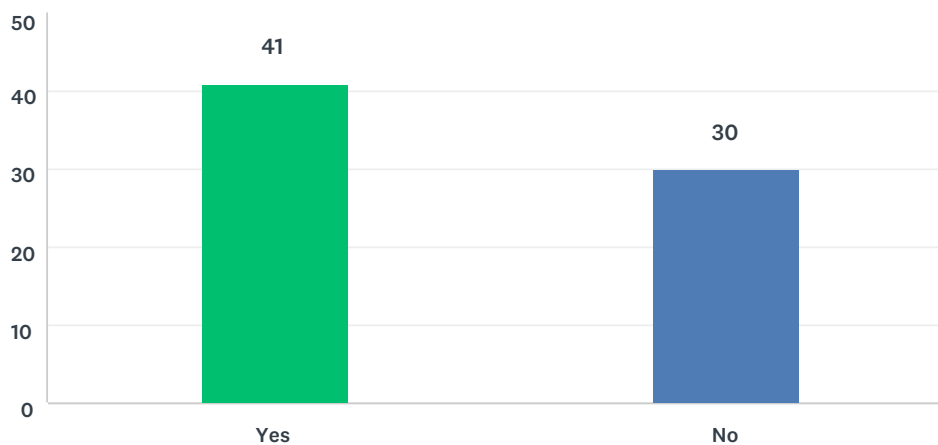
Q10 Additional comments on your personal assessment

Answered: 5 Skipped: 70

#	RESPONSES	DATE
1	I think some of the lectures might have been difficult for people without background in both algebraic geometry and homotopy theory. Because I'd studied both a bit, I felt like I was more or less the target audience.	2/3/2019 6:37 PM
2	I wish that there had been truly accessible / introductory talks on both of the main topics so that you could get something out of every talk. As it stood, I only got something from talks in my area.	1/31/2019 1:11 PM
3	I learned a lot and became inspired to continue and learn more about the topics discussed. People were kind in explaining things I did not know. The pace was good.	1/31/2019 9:00 AM
4	The fields were really too distinct so I benefited only from half of the talks, approximately.	1/30/2019 7:59 PM
5	I don't think it's a good idea to have a joint workshop. Half the lectures weren't interesting to me, and the other half, covering subjects of interest to me, were presented in too superficial a manner to me, in an attempt to reach the other half of the audience. It's not the fault of the speakers, who made a laudable effort to be understandable to all.	1/30/2019 7:01 PM

Q11 Did you attend the panel discussion?

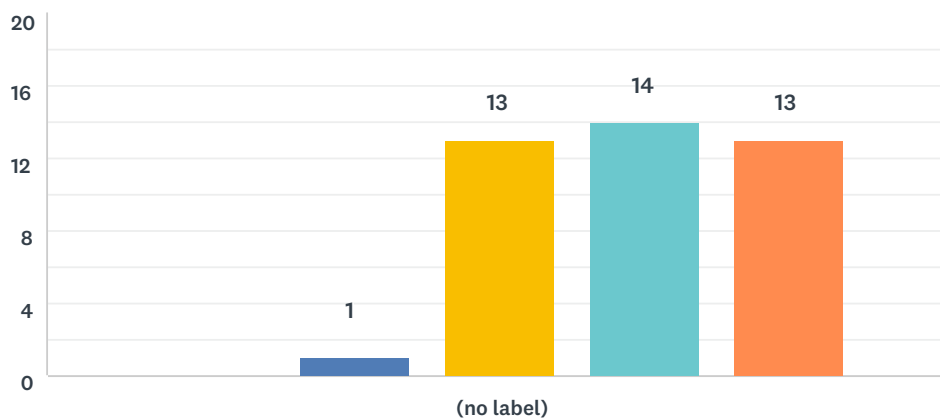
Answered: 71 Skipped: 4



ANSWER CHOICES	RESPONSES	
Yes	57.75%	41
No	42.25%	30
TOTAL		71

Q12 Did you find the panel discussion worthwhile?

Answered: 41 Skipped: 34



1. Not at all 2 3 4 5. Very much

	1. NOT AT ALL	2	3	4	5. VERY MUCH	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	2.44%	31.71%	34.15%	31.71%	41	3.95
	0	1	13	14	13		

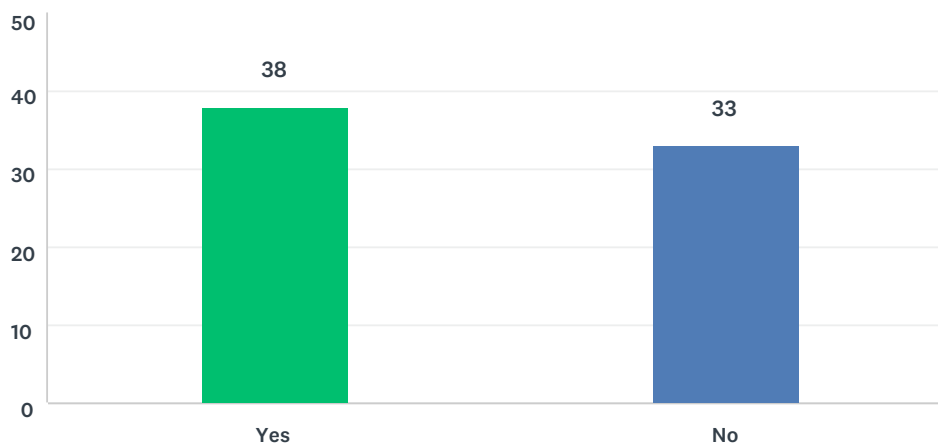
Q13 What other subjects should be discussed in future panel discussions?

Answered: 6 Skipped: 69

#	RESPONSES	DATE
1	How to increase the percentage of women fellows at IAS and MSRI.	2/6/2019 11:05 AM
2	Please consider not allowing men to attend the panel discussion. Also, I think that just because someone is a senior mathematician in a field does not mean necessarily that they are a good role model or that they are equipped to answer some of the questions that came up.	1/31/2019 1:13 PM
3	I thought things were adequately discussed.	1/31/2019 9:01 AM
4	Working with men as allies Work-life balance How to manage career+children	1/30/2019 7:02 PM
5	Tips on productive learning when starting a new research area.	1/30/2019 6:15 PM
6	related topics	1/30/2019 6:04 PM

Q14 Did you attend the dinner?

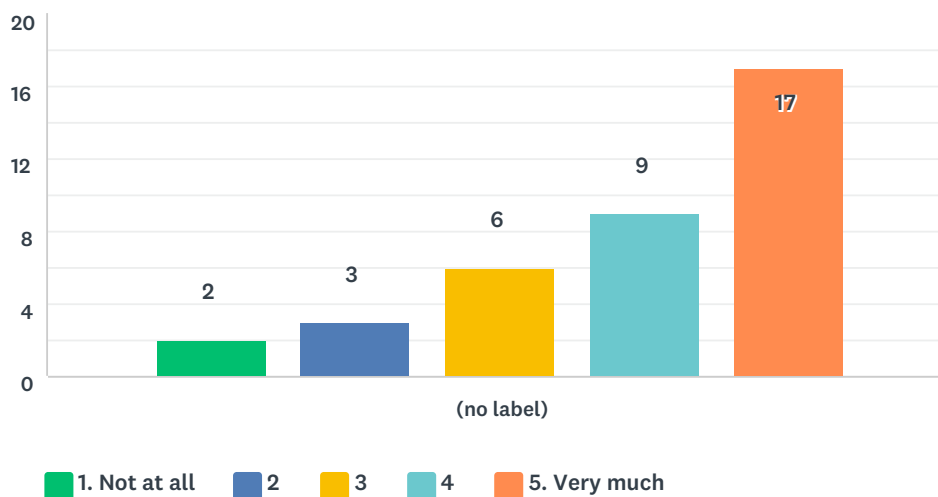
Answered: 71 Skipped: 4



ANSWER CHOICES	RESPONSES	
Yes	53.52%	38
No	46.48%	33
TOTAL		71

Q15 Did the dinner help to solidify the contacts you made in the workshop?

Answered: 37 Skipped: 38



	1. NOT AT ALL	2	3	4	5. VERY MUCH	TOTAL	WEIGHTED AVERAGE
(no label)	5.41%	8.11%	16.22%	24.32%	45.95%	37	3.97
	2	3	6	9	17		

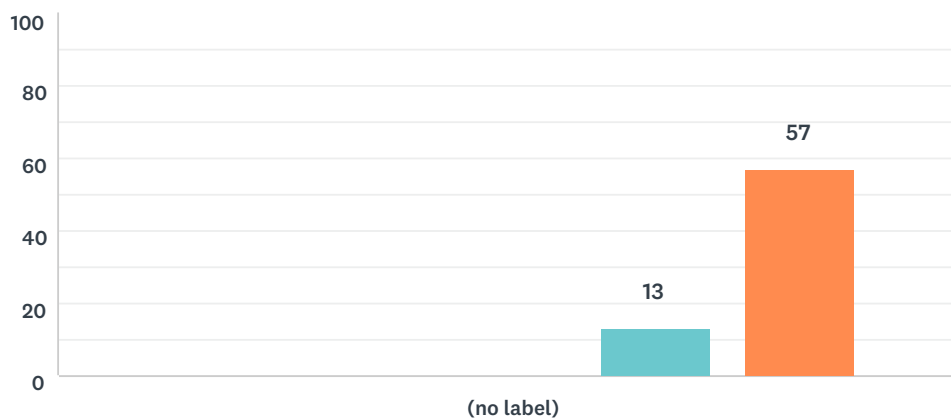
Q16 Please provide any comments about the dinner

Answered: 7 Skipped: 68

#	RESPONSES	DATE
1	It would have been nice if there were a few more main course options! However the food served was certainly satisfactory.	2/3/2019 6:37 PM
2	More vegetarian food would help. And thank you for the lovely dinner!	2/1/2019 6:03 PM
3	It seemed at the dinner that everyone simply sat with people they already knew. I wish that the dinner had been more of an opportunity for senior and younger mathematicians to meet each other (perhaps assigning seats for senior mathematicians and allowing grad students to pic their table would have been better?)	1/31/2019 1:15 PM
4	Dinner was great. Really great experience.	1/31/2019 9:01 AM
5	I get it is mostly a problem of space, but I found that the fact that we mostly had very small discrete tables made it difficult to talk to different people. We got kind of stuck with the people we were eating with.. It was really nice either way, and I liked the fact that it was women-only. It was nice having a female-dominated space in such a male-dominated field.	1/30/2019 10:10 PM
6	I didn't sit with folks who had similar interests.	1/30/2019 7:10 PM
7	It was nice that it was held at the institute.	1/30/2019 7:03 PM

Q17 I found the MSRI staff helpful

Answered: 70 Skipped: 5

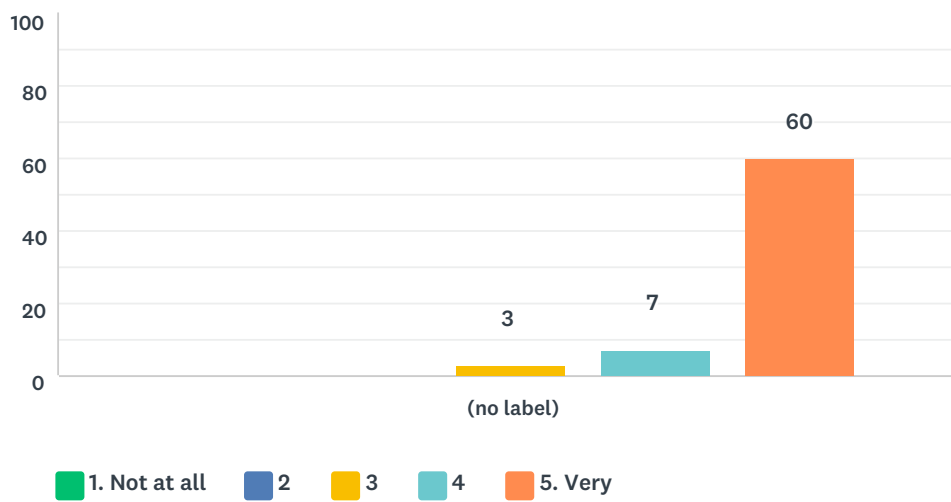


■ 1. Not at all
 ■ 2
 ■ 3
 ■ 4
 ■ 5. Very

	1. NOT AT ALL	2	3	4	5. VERY	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	0.00%	0.00%	18.57%	81.43%	70	4.81
	0	0	0	13	57		

Q18 The MSRI facilities were conducive for such a workshop

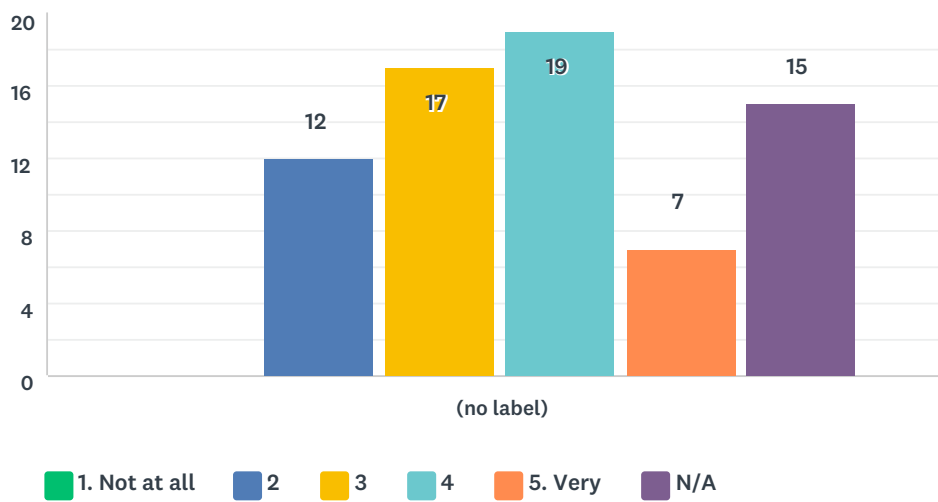
Answered: 70 Skipped: 5



	1. NOT AT ALL	2	3	4	5. VERY	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	0.00%	4.29%	10.00%	85.71%	70	4.81
	0	0	3	7	60		

Q19 The MSRI lunch arrangements were satisfactory

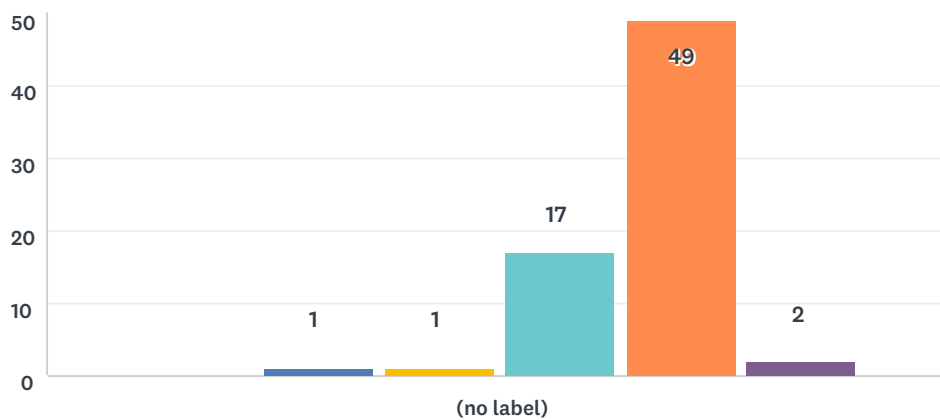
Answered: 70 Skipped: 5



	1. NOT AT ALL	2	3	4	5. VERY	N/A	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	17.14%	24.29%	27.14%	10.00%	21.43%	70	3.38
	0	12	17	19	7	15		

Q20 The MSRI tea arrangements were satisfactory

Answered: 70 Skipped: 5

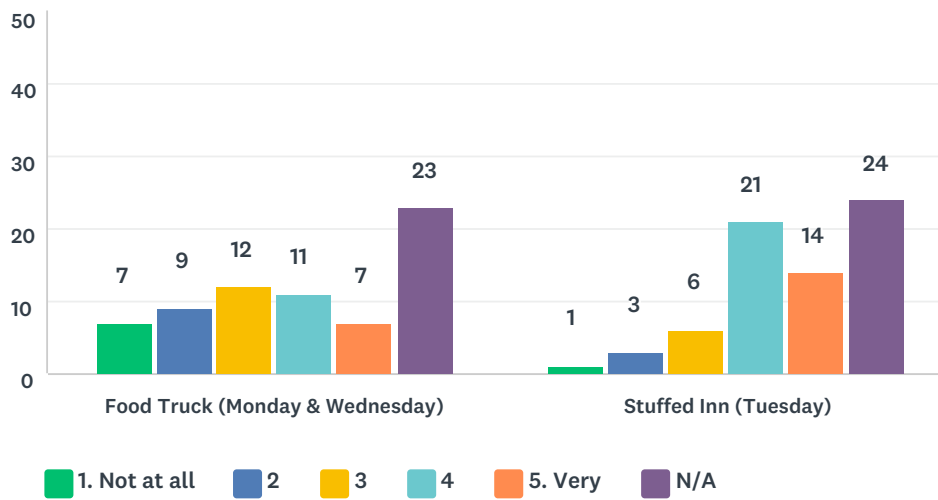


■ 1. Not at all
 ■ 2
 ■ 3
 ■ 4
 ■ 5. Very
 ■ N/A

	1. NOT AT ALL	2	3	4	5. VERY	N/A	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	1.43%	1.43%	24.29%	70.00%	2.86%	70	4.68
	0	1	1	17	49	2		

Q21 I found the food from the following vendors satisfactory:

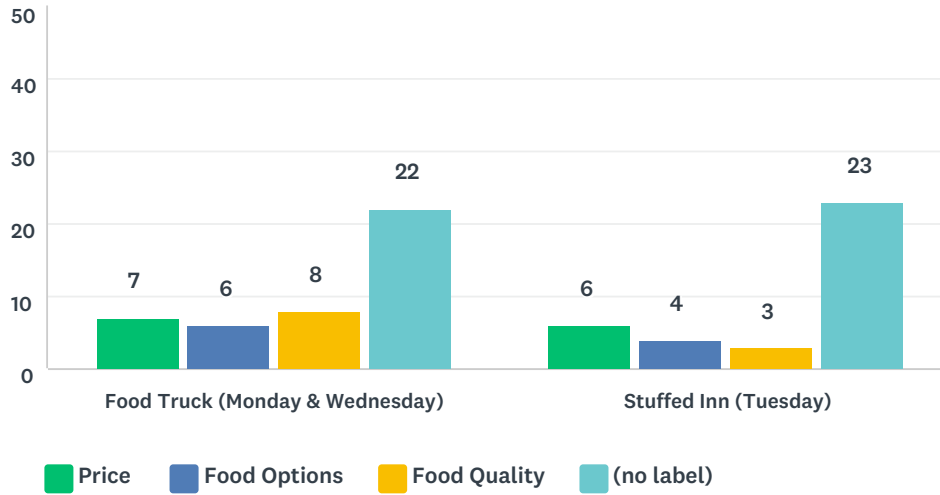
Answered: 70 Skipped: 5



	1. NOT AT ALL	2	3	4	5. VERY	N/A	TOTAL
Food Truck (Monday & Wednesday)	10.14%	13.04%	17.39%	15.94%	10.14%	33.33%	69
	7	9	12	11	7	23	
Stuffed Inn (Tuesday)	1.45%	4.35%	8.70%	30.43%	20.29%	34.78%	69
	1	3	6	21	14	24	

Q22 I did NOT purchase from the following vendors because:

Answered: 45 Skipped: 30



	PRICE	FOOD OPTIONS	FOOD QUALITY	(NO LABEL)	TOTAL
Food Truck (Monday & Wednesday)	16.28%	13.95%	18.60%	51.16%	
	7	6	8	22	43
Stuffed Inn (Tuesday)	16.67%	11.11%	8.33%	63.89%	
	6	4	3	23	36

#	OTHER (PLEASE SPECIFY)	DATE
1	Had my own lunch	2/19/2019 8:16 PM
2	time	2/19/2019 5:16 PM
3	Long waiting time to food truck	2/6/2019 10:08 AM
4	I brought my lunch	2/5/2019 9:29 PM
5	There was a huge line for the food truck. On Wednesday I brought my own food to avoid this.	2/3/2019 6:38 PM
6	The food truck is quite expensive and not very good quality.	1/31/2019 1:15 PM
7	Brought lunch	1/31/2019 11:35 AM
8	very slow	1/31/2019 10:52 AM
9	I brought lunch.	1/30/2019 8:59 PM
10	The truck is WAY TOO SLOW!	1/30/2019 7:14 PM
11	Brought my own lunch two of the days.	1/30/2019 7:13 PM
12	I purchased from both vendors	1/30/2019 6:13 PM

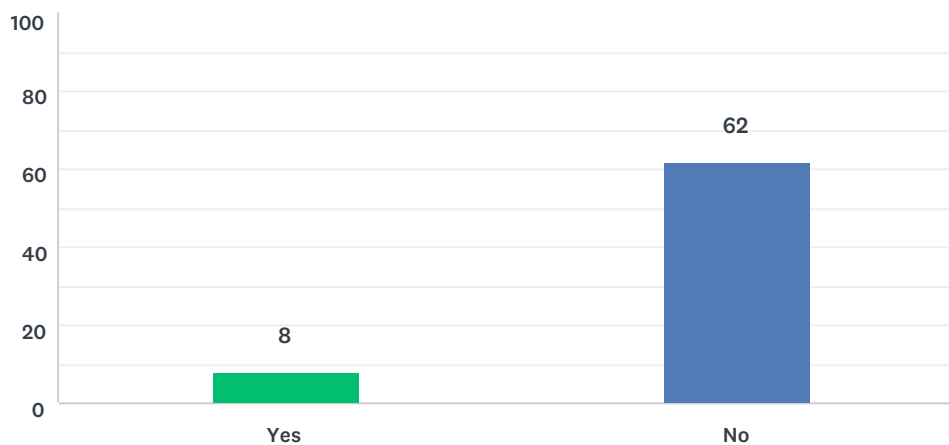
Q23 Additional comments about MSRI staff, facilities and food

Answered: 11 Skipped: 64

#	RESPONSES	DATE
1	I prefer to eat my own food	2/6/2019 2:28 PM
2	Inadequate vegetarian sandwich options.	2/6/2019 10:47 AM
3	The MSRI staff was very helpful, and the facilities were very nice.	2/5/2019 9:29 PM
4	Really great, positive experience at MSRI. Definitely hope to be back!	1/31/2019 9:02 AM
5	The space for tea was quite crowded	1/31/2019 8:04 AM
6	You should maybe specify on the welcoming e-mails that the MSRI building is not only far, but also on top of a hill. I thought of going on foot the first day (thinking it would be a nice stroll), and when I arrived to the venue I was already tired...	1/30/2019 10:12 PM
7	I would have preferred more vegetarian options for lunch. Also, the food truck was ill-prepared to serve as many people as were at the workshop, so it was very slow.	1/30/2019 7:24 PM
8	The atrium felt cramped during tea. I found it easier to sit and talk with folks in the commons, but there the company was much sparser.	1/30/2019 7:13 PM
9	The food at the food truck was good, but wasn't able to accommodate so many people in a reasonable amount of time. Stuffed Inn is just okay, not great.	1/30/2019 7:03 PM
10	it will be better to provide many choice of food	1/30/2019 6:09 PM
11	In the auditorium, under some seats on the sides there are air outlets, sometimes the wind is too strong which makes me feel uncomfortable.	1/30/2019 5:05 PM

Q24 Did you use the computer facilities located in the library?

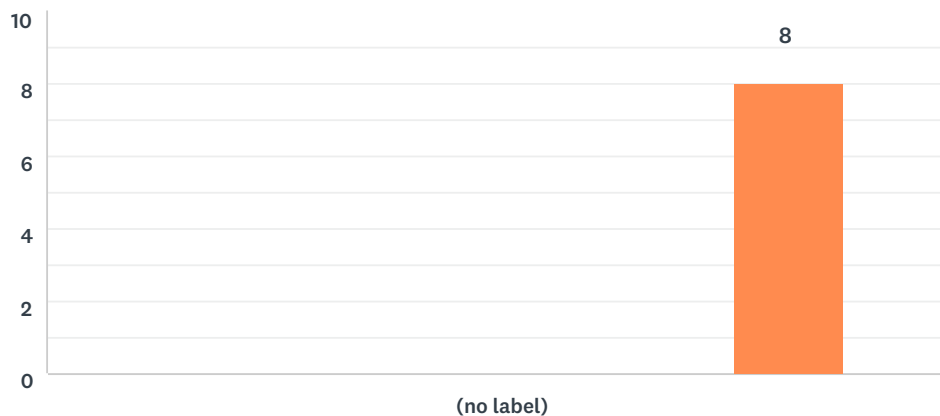
Answered: 70 Skipped: 5



ANSWER CHOICES	RESPONSES	
Yes	11.43%	8
No	88.57%	62
TOTAL		70

Q25 The MSRI computer facilities in the library were adequate

Answered: 8 Skipped: 67



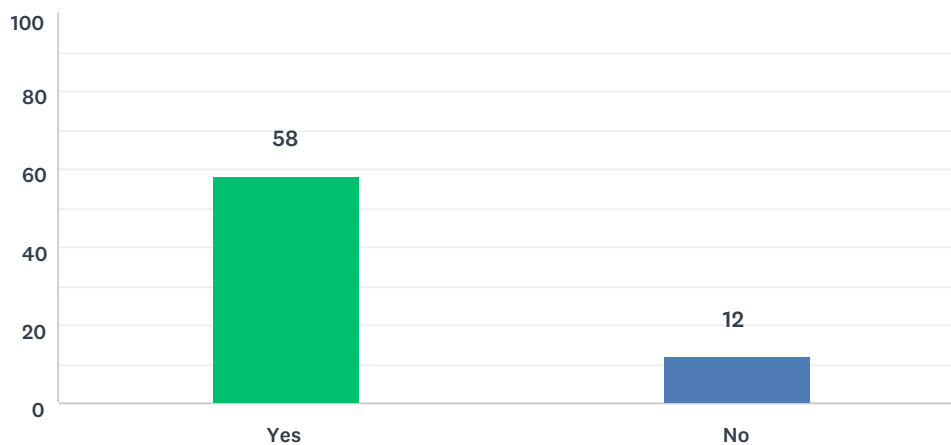
■ 1. Not at all
 ■ 2
 ■ 3
 ■ 4
 ■ 5. Very

	1. NOT AT ALL	2	3	4	5. VERY	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	0.00%	0.00%	0.00%	100.00%	8	5.00
	0	0	0	0	8	8	

#	COMMENTS ABOUT COMPUTER FACILITIES	DATE
1	Staff was very helpful. I would like to come back to spend some time there. A lot of great books.	1/31/2019 9:02 AM
2	the librarian was helpful in finding resources	1/30/2019 8:23 PM

Q26 Did you use MSRI's wireless network?

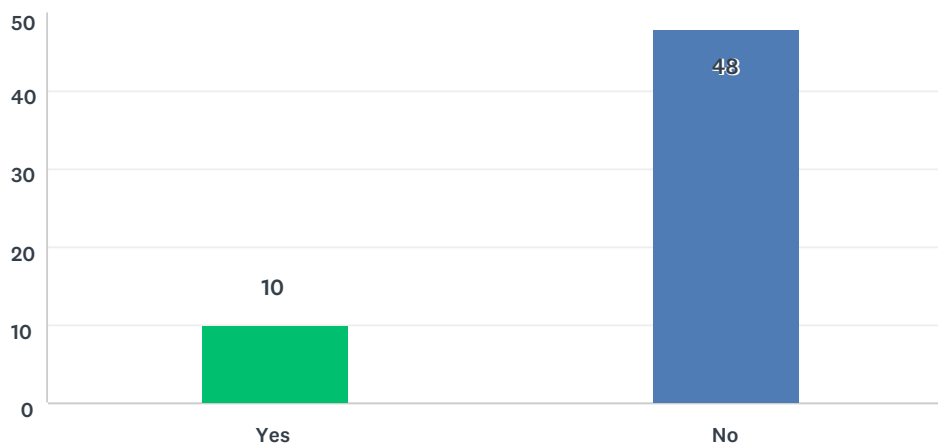
Answered: 70 Skipped: 5



ANSWER CHOICES	RESPONSES	
Yes	82.86%	58
No	17.14%	12
TOTAL		70

Q27 Did you experience any difficulties with the network?

Answered: 58 Skipped: 17



ANSWER CHOICES	RESPONSES	
Yes	17.24%	10
No	82.76%	48
TOTAL		58

#	PLEASE IF YES, PLEASE DESCRIBE YOUR DIFFICULTIES	DATE
1	Insufficient coverage in some areas.	2/19/2019 12:58 PM
2	The MSRI wifi was slow at times. I had an important committee call on bluejeans that was repeatedly interrupted by a weak connection.	2/19/2019 12:04 PM
3	Sometimes I would be disconnected from the network. I figured this was because so many people were connected at the same time.	2/19/2019 11:10 AM
4	MSRI Guest connection was not always good.	2/6/2019 8:01 PM
5	eduroam, intermittent access	2/6/2019 2:49 PM
6	Very slow connected, keeps dropping	2/6/2019 11:08 AM
7	I had connectivity problems in the Simons Auditorium.	1/31/2019 1:16 PM
8	I found the members network more stable for Skype conversation than the eduroam network.	1/30/2019 9:00 PM
9	Occasionally I was cut off	1/30/2019 5:42 PM

Q28 We welcome any additional comments or suggestions you may have to improve the overall experience for future participants.

Answered: 8 Skipped: 67

#	RESPONSES	DATE
1	This survey could be shorter :)	2/6/2019 10:10 AM
2	Thank you!	2/1/2019 6:04 PM
3	It was great!	1/31/2019 9:52 PM
4	Overall I would have liked to have more structured activities for young people to meet older people. The senior mathematicians did not seem interested in meeting young people and this felt unwelcoming.	1/31/2019 1:17 PM
5	n/a. I had a really positive experience at MSRI!	1/31/2019 9:03 AM
6	I have mixed feelings about the workshop being open for all. I'm not against the idea in general, but I find it kind of annoying that even at a workshop called "Connections for Women", we still didn't manage to be more than half of the participants. I'm not necessarily advocating for a completely non-mixed workshop, but if you have some kind of power over who gets invited, maybe try to be a little more hard on male invitations.	1/30/2019 10:17 PM
7	I liked a lot the mixed format of long lectures by senior researches, short lectures by new phds and posters by grad students.	1/30/2019 8:25 PM
8	Food experience. Maybe a lunch shuttle right past noon to transport the participants down the hill.	1/30/2019 6:20 PM

Response to #6: MSRI workshops are open to the entire mathematical community. Funding for Connections workshops is only provided to women.