

# Pre-Proposal for a Program on <TITLE>

**1. Organizing committee:** List the program organizers, their affiliations, and their anticipated length of stay.

Note: All programs must have at least three organizers in residence for the duration of the program. We strongly recommend that at least two organizers be US-based mathematicians, and that at least two organizers be women or members of other groups underrepresented in the mathematical sciences. Because SLMath is funded by the (US) National Science Foundation, it is important that SLMath's programs be composed of 60% or more US participants. Also, in our experience, when an organizing committee is diverse, it generates a more diverse list of applicants and participants. This phenomenon is consistent with a large American Mathematical Society study, which found a strong correlation between the number of women organizers and the number of women speakers and participants in AMS special sessions.

**2. Scientific Description:** The description should include a background of the topic, relationships with other parts of mathematics or other disciplines, goals and areas of potential progress, an outline of the proposed program's structure, proposed involvement of postdocs and interactions with other scientists, and why the proposal is particularly suited to SLMath. It is highly desirable that the program show the breadth of the mathematical field being treated, and take into special account its relation to other fields of mathematics and (in appropriate cases) other sciences and engineering.

**3. Planned Workshops:** Every semester-long program will have three workshops: At the start of the program, there will be a Connections workshop, followed by an Introductory workshop. A topical workshop will be scheduled for sometime later during the semester. At the pre-proposal stage, the only requirement is to indicate the topic of the topical workshop, though you are welcome to provide additional information including the organizing committee for each workshop if you know them at this early stage.

### **3a. Connections Workshop** OPTIONAL AT THIS STAGE

Description

Organizing committee and affiliation

Potential speakers and affiliation

Held at the very beginning of the program, these two-day workshops have three overarching goals: (1) to give accessible introductions to the main themes of the program and exciting new directions in related research; (2) to provide participants the opportunity to become acquainted with the work of women in the field; and (3) to connect early-career researchers, especially women, gender-expansive individuals, and minorities, to potential senior mentors. A typical workshop consists of introductory lectures, presentations by post-doctoral researchers and graduate students, and a panel discussion addressing the challenges faced by all young researchers, but especially by women, in establishing a career in mathematics. Throughout the workshops, special effort is made to foster mentoring relationships between established and early-career researchers at the lunches, dinners, and coffee breaks. The workshop organizers are also encouraged to propose week-end activities for small groups of women with similar research interests to discuss problems and perhaps to begin work on a joint research project (e.g. forming small research or study groups that would work on predetermined problems, read a paper, or learn new techniques). Participants of the Connections Workshop are encouraged to stay for the following week for the Introductory Workshop. Additionally, good coordination between the organizers of these two workshops is paramount to the success for both workshops as well as the program. For this reason, it is required to have one person be simultaneously on the organizing committees of both workshops. The proposal should contain an explicit description of the workshop, as well as the organizing committee and their affiliations, and potential speakers and their affiliations. **As is the case for all SLMath workshops, registration to attend Connections workshop lectures is open to all interested persons.**

### **3b. Introductory Workshop** OPTIONAL AT THIS STAGE

Description

Organizing committee and affiliation

Potential speakers and affiliation

Note that the introductory workshops are meant to set the stage and provide the context for the program, with the intended audience being researchers *not* in the program. This would include members in the other programs, members of the local mathematical community, and participants from outside the area selected especially for the workshop, particularly from groups underrepresented in research intensive contexts: women, minorities, mathematicians not located at research centers, and graduate students. In selecting participants, priority is given to these latter groups. When done well, these introductory workshops have been effective in broadcasting the goals, ideas and techniques of a particular program to the mathematical public at large, as well as in bringing the SLMath community together as a whole.

### **3c. Topical Workshop: TITLE IS REQUIRED**

Description

Organizing committee and affiliation OPTIONAL

Potential speakers and affiliation OPTIONAL

### **4. Related Programs:**

Here one should list all programs, especially those held at US Math Institutes, that may have intersection with the proposed program. The intersection with your program should be explained as well as how your program would differ from the others and how strong is the intersection. If some programs seem to be intersecting yours but are quite different it is good to mention it.

### **5. Key Participants:**

List of people that have expressed interest, with their affiliation. Eventually, at the proposal stage, a spreadsheet of potential participants containing, for each participant, the Family Name, First Name, Email address, Home Institution, Country of Home Institution, Gender, if US citizen minority status if applicable, will be required. At this stage it is not needed.

**6. Math Subject Classification numbers:** (Check: <http://www.ams.org/msc/msc2010.html>). We distinguish between primary and secondary classification. Please be as thorough as possible, as this will allow the videos of the speakers to be searchable to a wider audience.

**7. Key words:** Provide key words for the program. Again, the more thorough you can be, the more likely we are to reach the widest audience.

**8. Preferred Semester:** Indicate your preferred semester for the program, as well as several alternative semesters when the program could take place. Be sure to indicate and explain any constraints that you may have.