

Noelia Rizo

MSRI Program: Group Representation Theory and Applications

PhD student of Gabriel Navarro

Universitat de València

Noelia.Rizo@uv.es

About my work

- Character theory of finite groups.

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$

Twisted group algebra $\mathbb{C}_\alpha G$

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations

Twisted group algebra $\mathbb{C}_\alpha G$

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations

Twisted group algebra $\mathbb{C}_\alpha G$



Projective representations

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations



Irr(G)

Twisted group algebra $\mathbb{C}_\alpha G$



Projective representations

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations



$\text{Irr}(G)$

Twisted group algebra $\mathbb{C}_\alpha G$



Projective representations



$\text{Irr}(G \mid \theta)$

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations



$\text{Irr}(G)$



p -blocks

Twisted group algebra $\mathbb{C}_\alpha G$



Projective representations



$\text{Irr}(G \mid \theta)$

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations



$\text{Irr}(G)$



p -blocks

Twisted group algebra $\mathbb{C}_\alpha G$



Projective representations



$\text{Irr}(G \mid \theta)$



θ -blocks

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations



$\text{Irr}(G)$



p -blocks



Defect groups

Twisted group algebra $\mathbb{C}_\alpha G$



Projective representations



$\text{Irr}(G \mid \theta)$



θ -blocks

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations



$\text{Irr}(G)$



p -blocks



Defect groups

Twisted group algebra $\mathbb{C}_\alpha G$



Projective representations



$\text{Irr}(G \mid \theta)$



θ -blocks



θ -Defect groups

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations



$\text{Irr}(G)$



p -blocks



Defect groups

Projective version

Twisted group algebra $\mathbb{C}_\alpha G$



Projective representations



$\text{Irr}(G \mid \theta)$



θ -blocks



θ -Defect groups

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations



$\text{Irr}(G)$



p -blocks



Defect groups

Projective version

Twisted group algebra $\mathbb{C}_\alpha G$



Projective representations



$\text{Irr}(G \mid \theta)$



θ -blocks

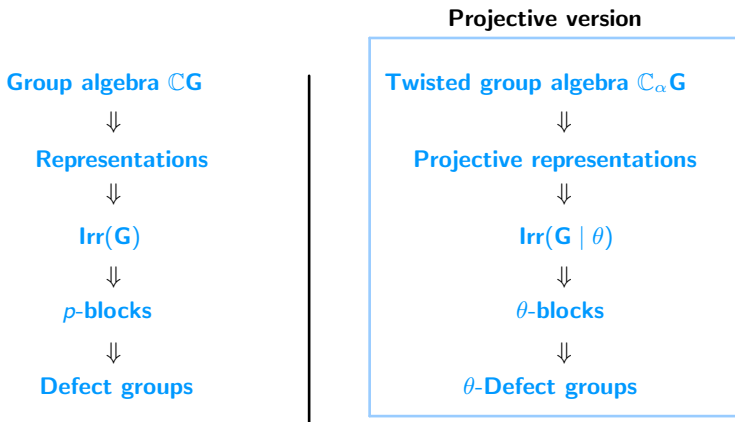


θ -Defect groups

- Why?

About my work

- Character theory of finite groups.



- **Why?** Reduction of some problems (e.g McKay conjecture).

About my work

- Character theory of finite groups.

Group algebra $\mathbb{C}G$



Representations



$\text{Irr}(G)$



p -blocks



Defect groups

Projective version

Twisted group algebra $\mathbb{C}_\alpha G$



Projective representations



$\text{Irr}(G \mid \theta)$



θ -blocks



θ -Defect groups

- **Why?** Reduction of some problems (e.g McKay conjecture).
- **Question:** Can θ -blocks help to reduce other conjectures?