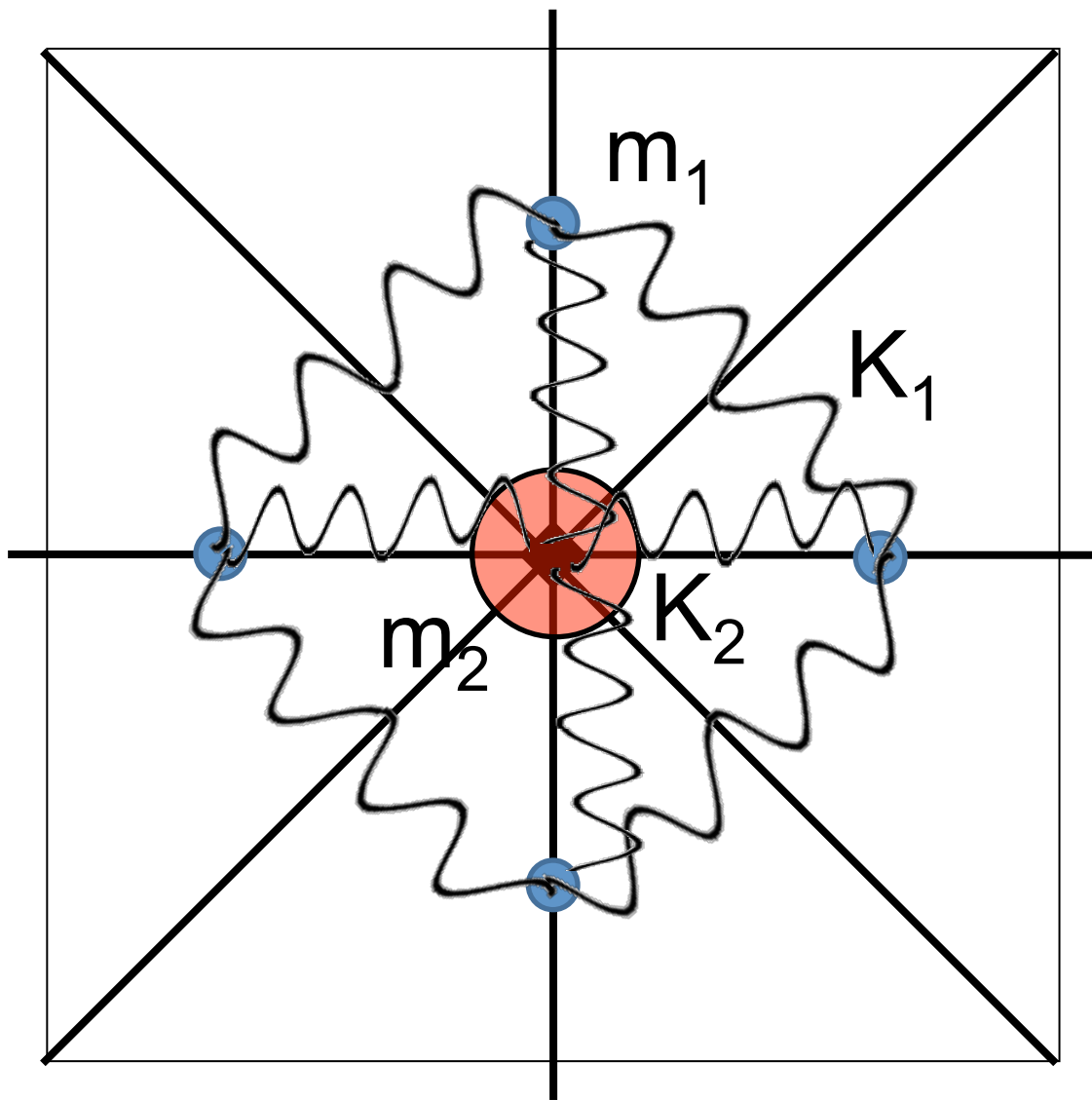


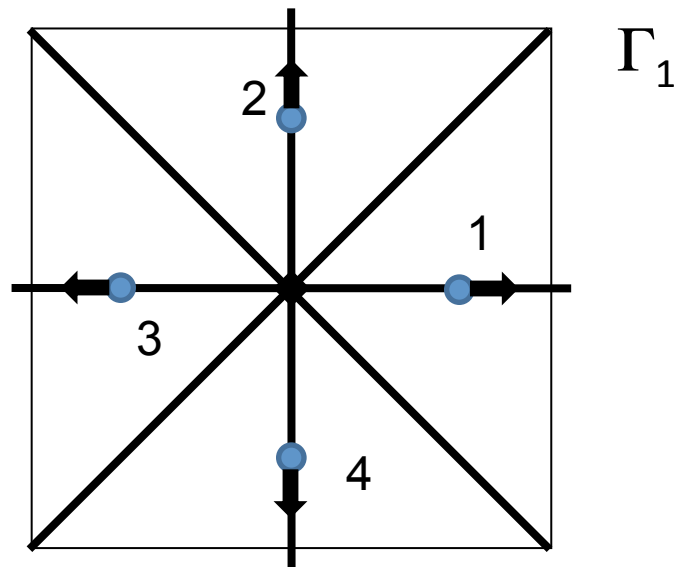
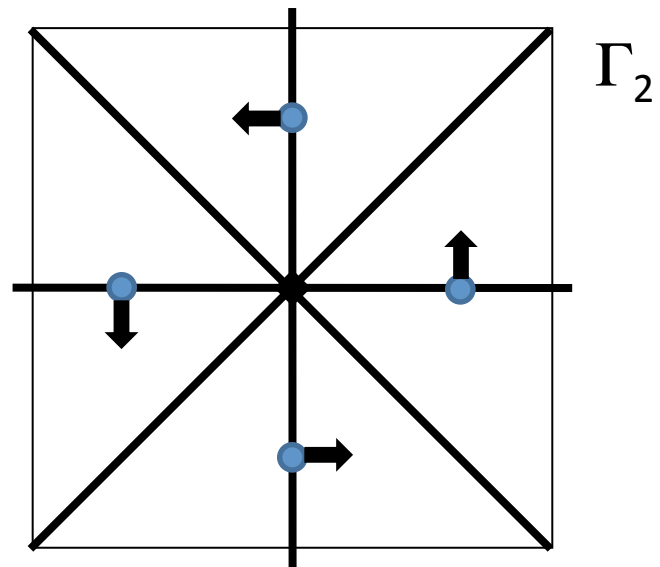
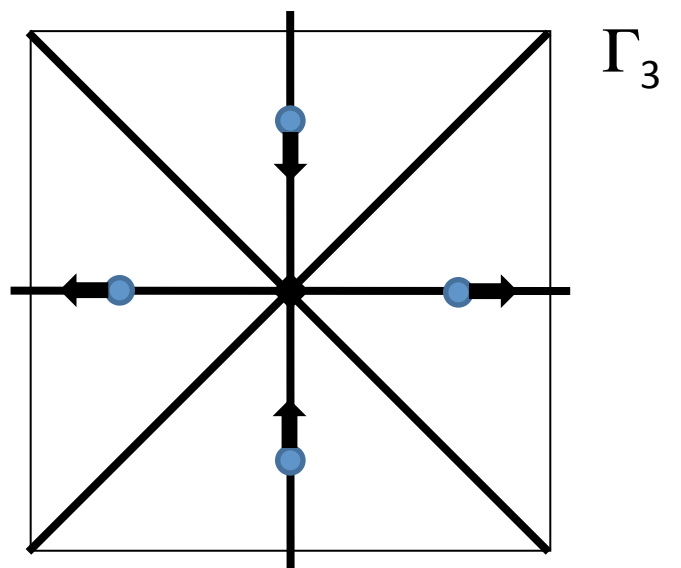
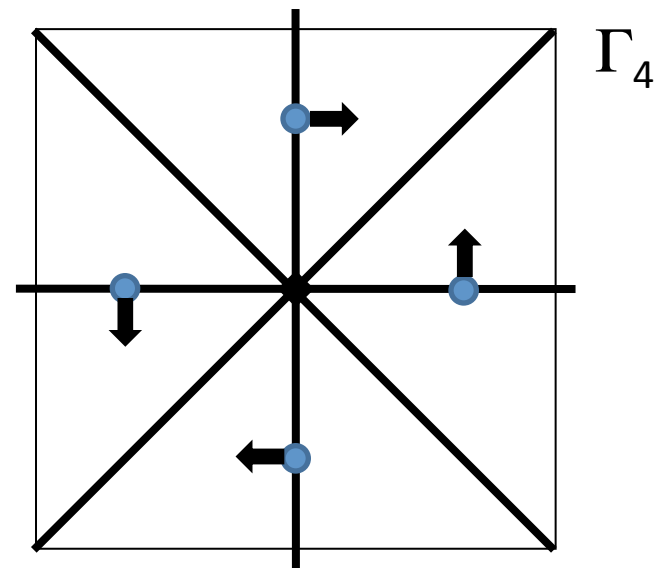
Key Questions about irreps

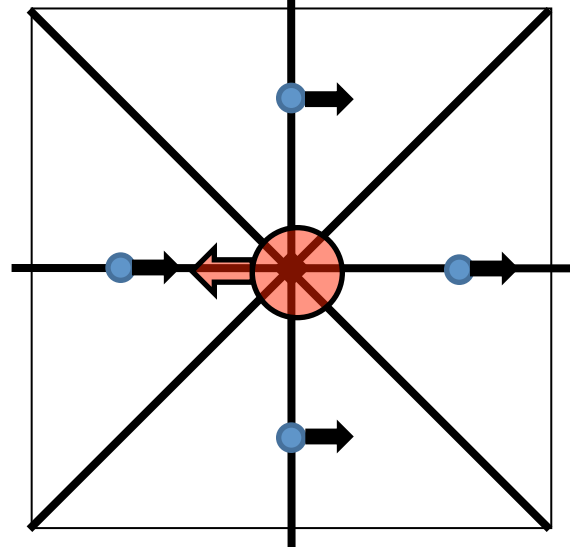
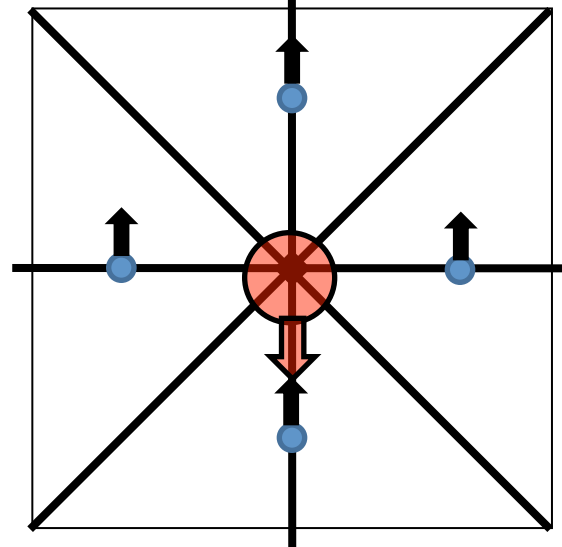
- ✓ 1. Are they a property of the group or of the space?
- ✓ 2. How many are they?
- ✓ 3. How can we “characterise” them, since for each there is clearly an infinite number of matrix irreps?
- ✓ 4. How can we construct all of them?
- ✓ 5. How can we decompose a *reducible* representation in its irreducible “components”?
6. Once we have an irrep, how can we construct the corresponding basis vectors?

www.cryst.ehu.es/rep/point.html



	E	2_z	$2(4^+)$	$2(2_x)$	$2(2_{xy})$
Γ_1	1	1	1	1	1
Γ_2	1	1	1	-1	-1
Γ_3	1	1	-1	1	-1
Γ_4	1	1	-1	-1	1
Γ_5	2	-2	0	0	0

 Γ_1  Γ_2  Γ_3  Γ_4


 Γ_5

 Γ_5
