Condensed Matter Physics Meets Python via Sage

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- Bundled with many open source softwares including SageMath (installed on the cloud instance).

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- May be Integration and Differentiation ....

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- Other Examples (Z_2, $SU(2)$, ...)

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- Conjugacy classes, Centralizers, Character Tables

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- Face Operators restrict the multiplication of the elements on the edges to the identity in the group

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- The excitations are given by the irreducible representations of the centralizers of the conjugacy class and that which condense by looking at the inner product of the characters !

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- Notebook on SageMathCloud

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- Thank you :)