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Coupled mode theory for BECs in a square bipartite optical lattice.

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We apply the coupled-mode theory to study the steady state of BECs loaded into the p-band of a 2D bipartite optical lattice potential. We demonstrate the possibility to create a superposition of Bloch states with a nontrivial orbital texture.

Primary author: HUSSEIN, Abbas (ANU)

Presenter: HUSSEIN, Abbas (ANU)

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