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## **Emergent charge order in cuprate high temperature superconductors**

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Charge ordered phases are now found in a wide range of underdoped cuprate high temperature superconductors. The relationship between these phases and nearby antiferromagnetic, superconducting, and pseudogap phases is not well established. However, the close proximity of the different phases suggests the possibility of nontrivial mixed states comprising multiple coexisting phases. In this talk, I will review our recent theoretical calculations to understand charge order and, in particular, its relationship to the pseudogap.

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