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**Intertwined Order Parameters in a Charge-Ordered Superconductor** ALEKSEJ MIALITSIN, NREL, ILIA SOLV'YOV, University of the Southern Denmark, ANNA TOTH, Vienna University of Technology, IGOR MAZIN, Naval Research Laboratory, ANDRIY NEVIDOMSKYY, Rice University, BRIAN DENNIS, GIRSH BLUMBERG, Rutgers University — We present a spectroscopic study of the low temperature state in NbSe<sub>2</sub>, exhibiting charge-density wave and superconductivity orders. Raman scattering reveals that the spectrum of quasi-particle excitations out of the condensate is characterized by an energy gap derived from both order parameters in a way that suggests intertwining between them. Supported by a calculation of NbSe<sub>2</sub> Raman vertices, and by earlier photoemission studies, we conclude that in NbSe<sub>2</sub> an isotropic superconductivity interplays with a strongly anisotropic charge-density wave order on selected parts of the Fermi surface, as characterized by admixture of particle-particle and particle-hole excitations.

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