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Quantum phases of strongly interacting polar molecules GUIDO PUPILLO, ANDREA MICHELI, MICHAEL ORTNER, PETER ZOLLER, University of Innsbruck and IQOQI, Austria — We discuss how to realize novel quantum phases and quantum simulations with cold polar molecules prepared in the electronic and vibrational groundstate.

 $\mbox{Guido Pupillo} \label{eq:Guido Pupillo} University of Innsbruck and IQOQI, Austria$

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