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Pinning modes of solid phases in wide quantum wells near  $\nu = 1$ ANTHONY HATKE, BRENDEN MAGILL, NHMFL, YANG LIU, Princeton University, LLOYD ENGEL, NHMFL, MANSOUR SHAYEGAN, LOREN PFEIFFER, KEN WEST, KURT BALDWIN, Princeton University — Near filling factor  $\nu = 1$ the microwave spectra of sufficiently low disorder two-dimensional electron systems (2DESs) exhibit a resonance [1], understood as a Wigner solid pinning mode, in which quasiparticles or quasiholes oscillate about their pinned positions. For 2DESs in a wide quantum well of thickness 54 nm and density n=2.4 x 10<sup>11</sup> cm<sup>-2</sup>, we find that the resonance frequency,  $f_{pk}$ , is comparatively enhanced for  $\nu < 0.88$ , and interpret this as a phase transition between Wigner solids, as shown by the reentrant integer quantum Hall effect (RIQHE) recently observed in wide wells under similar conditions [2]. As n is increased by gating, the transition to enhanced  $f_{pk}$  moves closer to  $\nu = 1$ , similar to the RIQHE in [2]. [1] Chen et al., Phys. Rev. Lett. **91**,016801 (2003). [2] Liu et al., Phys. Rev. Lett. **109**, 036801 (2012).

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