Magneto-intersubband oscillations of a wide quantum well in an electrically tuned triangular antidot lattice

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The resistance of a two-dimensional electron system in a wide quantum well with a triangular antidot lattice has been measured under perpendicular magnetic field. The antidot potential was electrically tuned while the system has two occupied subbands in the magneto-intersusbband (MIS) oscillations. The experimental data shows the evolution of the MIS oscillations and the geometrical resonance (GR) peaks, due to the commensurability of the cyclotron radius and lattice period, as the system was driven by the external gate from unmodulated to strongly modulated system.