Hall effect in cuprates with collinear incommensurate spin density waves MAXIME CHARLEBOIS, SIMON VERRET, OLIVIER SIMARD, ALEXANDRE FOLEY, DAVID SNchal, A.-M. S. TREMBLAY, Université de Sherbrooke and Institut quantique — The recently measured normal-state Hall effect in high-magnetic field shows that the carrier density drops in the pseudogap. More specifically, it scales like the doping $p$ at small $p$ and eventually raises to $1 + p$ at the doping where the pseudogap appears [1]. Whether the low-doping $p$ behavior arises from spin density waves (SDWs) or from Mott physics is still an open question. Using the approach of Voruganti et al. [2], we studied the doping dependence of the Hall effect of mean-field collinear incommensurate spin-density-waves. The results are contrasted with those of antiferromagnetic [3] and incommensurate spiral spin-density waves [4]. — [1] Badoux et al., Nature 531 210 (2016) [2] Voruganti et al., PRB 45 13945 (1992) [3] Storey, EPL 113 27003 (2016) [4] Eberlein et al., PRL 117 187001 (2016)