Author: Michele Larcher Year: 2013 Title: Granular flow-collisional regime Keyword: Granular flow, debris flow, kinetic theory, collisional regime, frictional regime, rheological model Abstract: Laboratory investigation on a steady, uniform, highly concentrated saturated granular flow, composed of spheres with a uniform diameter of 6 mm. Example of collisional regime. Bibliography: [1] Armanini A., Capart H., Fraccarollo L., Larcher M., (2005), Rheological stratification in experimental free-surface of granular-liquid mixture, J. Fluid Mech., 532: 269-319. [2] Larcher, M., Fraccarollo, L., Armanini, A., & Capart, H. (2007). Set of measurement data from flume experiments on steady uniform debris flows. Journal of Hydraulic Research, 45 (sup1), 59-71. [3] Armanini, A., Larcher, M., Fraccarollo, L., (2009). Intermittency of rheological regimes in uniform liquid-granular flows. Phys. Rev. E 79, 051306. [4] Armanini, A. (2013). Granular flows driven by gravity. J. Hydr. Research, 51(2), 111-120.