## 1145-35-848 Xiaokai Huo\*, G2056, Thuwal, Makkah 63955, Saudi Arabia, and Ansgar Jüngel and Athanasios Tzavaras. Euler flows for multicomponent fluids.

We consider the high-friction limit of Euler-Korteweg equations for fluid mixtures. The convergence of the solutions towards the zeroth-order limiting system and the first-order correction is shown, assuming suitable uniform bounds. Using the relative entropy method, we establish the weak-strong convergence to the first order expansion system: a Maxwell-Stefan type hyperbolic-parabolic system. Finally, the limit towards the zeroth-order system is shown for smooth solutions in the isentropic case and for weak-strong solutions in the Euler-Korteweg case, also including constant capillarities. (Received September 16, 2018)