1147-35-683 **Costante Bellettini***, Fuld Hall, 1 Einstein Drive, Princeton, NJ 08540. *Regularity and compactness for stable CMC hypersurfaces: GMT and PDE aspects.*

In a joint work with N. Wickramasekera we develop a regularity and compactness theory for stable hypersurfaces whose generalized mean curvature is prescribed by a given constant. I will describe the difficulties that arise in this case, when compared to the minimal case (treated in [Wickramasekera, Ann. of Math. '14]). I will present the ideas developed to handle the CMC case: they are of GMT and PDE flavour and they are robust enough to be applicable to more general regularity problems in the calculus of variations. (Received January 28, 2019)