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**Niels Martin Møller\*** ([moller@ictp.it](mailto:moller@ictp.it)), MSRI, and ICTP, Math Section, Room 121, Strada Costiera 11, I-34151 Trieste, Italy. *Title: Estimates on mean curvature flow solitons, with applications to nonexistence theorems.*

This talk will be concerned with techniques for getting a quantitative understanding of some important known translating solitons in the  $n$ -dimensional mean curvature flow (a quasilinear parabolic geometric PDE), in  $\mathbb{R}^{n+1}$ . The global estimates in question follow by iteration of simple monotonicity formulae, which allows one to cook up good test functions to use in a more direct maximum principle argument - an idea and technique which, while quite elementary in nature, has been useful in several of such situations. The potential applications of better estimates are probably many. I will focus mostly on some new nonexistence theorems which follow, again from a maximum principle. (Received February 01, 2016)