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**Qiang Guang\*** ([guang@ucsb.edu](mailto:guang@ucsb.edu)), **Martin Man-chun Li** and **Xin Zhou**. *Curvature estimates and compactness for free boundary minimal hypersurfaces.*

Minimal hypersurfaces with free boundary are critical points of the area functional in compact manifolds with boundary. In this talk, we will present curvature estimates for stable free boundary minimal hypersurfaces. In general, a free boundary minimal hypersurface may not be proper, i.e., the interior of the hypersurface may touch the boundary of the ambient manifold. For such improper free boundary minimal hypersurfaces, we will also discuss the curvature estimates and compactness. (Received September 21, 2017)