## GEOMETRY SEMINAR

## A Spruck-Xiao-type Theorem

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Abstract. Bearing in mind the works of White for minimal surfaces, Rosenberg, Souam and Toubiana for CMC surfaces in 3-manifolds with bounded geometry and Spruck-Xiao for translating solitons, we give a curvature estimate result for stable  $[\varphi, \vec{e_3}]$ -minimal surfaces in  $\mathbb{R}^3$  using a compactness argument. As a consequence, inspired by the work of Hoffman, Ilmanen, Martín and White, we show a Spruck-Xiao type theorem for a family of complete  $[\varphi, \vec{e_3}]$ -minimal surfaces with  $H \leq 0$  and locally bounded genus applying the Omori-Yau maximum principle.