

COMPACTNESS PROPERTIES OF THE SPACE OF GENUS- g HELICOIDS

JACOB BERNSTEIN

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ABSTRACT. I will discuss a recent application of the work of Colding and Minicozzi of structure of embedded minimal surfaces in \mathbf{R}^3 to the study of compactness properties of the space of genus- g helicoids. I will (attempt to) gently introduce the theory of Colding and Minicozzi and then show how it can be used to show (among other results) that the space of genus-one helicoids is compact (modulo symmetries). (Joint work with C. Breiner)