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Roland Donniger and **Irfan Glogic***, Department of Mathematics, The Ohio State University, 231 W 18th Ave, Columbus, OH 43220. *Existence and stability of blowup for wave maps into a negatively curved target.*

We consider wave maps on $(1 + d)$ -dimensional Minkowski space. For each dimension $d \geq 8$ we construct a negatively curved, d -dimensional target manifold that allows for the existence of a wave map which starts off smooth and blows up in finite time. Furthermore, such wave map is explicit and self-similar inside the backward lightcone of the blowup point and provides a stable blowup mechanism for the corresponding Cauchy problem. (Received July 25, 2017)