



Deforming submanifolds of arbitrary codimension in a sphere

Kefeng Liu, Hongwei Xu, Entao Zhao

(Submitted on 31 Mar 2012)

In this paper, we prove some convergence theorems for the mean curvature flow of closed submanifolds in the unit sphere \mathbb{S}^{n+d} under integral curvature conditions. As a consequence, we obtain several differentiable sphere theorems for certain submanifolds in \mathbb{S}^{n+d} .

Comments: 20 pages

Subjects: **Differential Geometry (math.DG)**

Cite as: **arXiv:1204.0106 [math.DG]**

(or **arXiv:1204.0106v1 [math.DG]** for this version)

Submission history

From: Hao Xu [[view email](#)]

[v1] Sat, 31 Mar 2012 15:28:59 GMT (15kb)

[Which authors of this paper are endorsers?](#)

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

math.DG

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1204](#)

Change to browse by:

[math](#)

References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

