ENERGY IDENTITY AND NECKLESSNESS FOR A SEQUENCE OF $\ALPHA$-DIRAC-HARMONIC MAPS TO A SPHERE

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Abstract: Let (φ_{α}, $\phi_{\alpha}) be a sequence of α-Dirac-harmonic maps from a closed Riemann surface M to a compact Riemannian manifold N with uniformly bounded energy. If the target N is a sphere S^{K-1}, we show that the energy identity and necklessness hold during the blow-up process as $\alpha\rightarrow 0$ for such a sequence.