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The minimal genus problem for elliptic surfaces

## M. J. D. Hamilton

(Submitted on 6 Jun 2012)

We partly solve the minimal genus problem for embedded surfaces in the case of elliptic 4-manifolds. This involves a certain restricted transitivity property of the action of the orientation preserving diffeomorphism group on the second homology. In all cases we consider we get the minimal possible genus allowed by the adjunction inequality.

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