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Jonathan Michael Bloom* (jbloom@math.mit.edu), **Tomasz Mrowka** (mrowka@math.mit.edu) and **Peter Ozsvath** (petero@math.mit.edu). *A Künneth formula in monopole Floer homology.*

We extend the TQFT structure of monopole Floer homology to cobordisms with multiple ends, equipped with families of metrics. Combined with the surgery exact triangle, we establish a Künneth formula for monopole Floer homology under connected sums. This application is joint work with Tomasz Mrowka and Peter Ozsváth. (Received June 23, 2011)