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Vanderbilt University, 1326 Stevenson Center, Nashville, TN 37240, and **Viatcheslav**
Kharlamov. *Moduli spaces of stable rank one torsion free sheaves on real curves.*

The counting of rational curves representing primitive homology classes on complex or real K3 surfaces is governed by the Yau- Zaslow formula and its real analog, respectively. An approach to extend such formulae to the non-primitive case has been suggested by Jun Li and requires the computation of the Euler characteristic of moduli spaces of stable, rank one sheaves on curves which are possibly reducible and non-reduced. Recent developments in this direction will be presented. (Received January 20, 2020)