

Symplectic invariants of the moduli space of polygons in \mathbb{R}^3 .

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Let $M(r)$ be the moduli space of polygons in \mathbb{R}^3 with fixed side length. Under suitable genericity assumptions, the space $M(r)$ is a smooth manifold, which inherits a symplectic structure by symplectic reduction. In this talk I will describe this construction and discuss how to use the bending action on $M(r)$ to calculate a symplectic invariant of these spaces, namely their Gromov width.

This is based on joint work with Milena Pabiniak.