DISK POTENTIAL FUNCTION FOR POLYGON SPACES

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Abstract: In this talk, we explain polygon spaces and bending completely integrable systems. We then explain how to understand the topology of fibers of completely integrable systems. Based on the structural result of the monotone Fukaya category and toric degenerations, we compute the disk potential function of the monotone torus fiber of the caterpillar bending system and derive a Floer theoretical SYZ mirror for an equilateral and generic polygon space. This talk is based on joint work with Siu-Cheong Lau and Xiao Zheng.

See http://math.bu.edu/research/geom/seminar.html or contact Yu-Shen Lin (*yslin@bu.edu*) or Brian Williams (*bwill22@bu.edu*) for more information.