

CMI Mathematics Colloquium

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Counting curves tropically

Sushmita Venugopalan

A multiple cut operation on a symplectic manifold produces a collection of cut spaces. In this talk I explain, using examples, how curves in the symplectic manifold degenerate under a multiple cut into broken curves. I will relate these to ‘tropical curves in the plane’ which were used by Mikhalkin to count curves in the complex projective plane.