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## Update in mean curvature flow

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I will report on progress in understanding singularities for the mean curvature flow of surfaces in  $\mathbb{R}^3$ , particularly (1) the conjecture that generic flows have singularities modeled only on the sphere and the cylinder (positive mean curvature type) (2) the conjecture that sphere and cylinder singularities have a spacetime neighborhood with positive mean curvature (3) a general structure theorem for the ends of a self-similarly shrinking surface in  $\mathbb{R}^3$  with entropy less than 2.

*This is joint work with Colding, White, Minicozzi.*

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