

*Speaker:* **Qiu, Ruifeng**

*Title:* *Handle additions on a small hyperbolic 3-manifold*

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*Abstract:* We will provide a small hyperbolic 3-manifold  $M$  such that for every  $g > 1$ , there are infinitely many isotopy classes of separating curves  $r$  on  $\partial M$  such that the manifold obtained by doing a handle addition on  $M$  along  $r$  contains an essential closed surface of genus  $g$ .