

## **Classification of convex ancient free boundary mean curvature flows in the ball**

THEODORA BOURNI AND MAT LANGFORD

**Abstract.** We prove that there exists, in every dimension, a unique (modulo rotation about the origin and time translations) convex ancient mean curvature flow in the ball with free boundary on the sphere. This extends our previous classification result on the circle to general dimensions.

**Mathematics Subject Classification (2020):** 53E10 (primary); 35K20 (secondary).