Saddle Points, Morse Theory and the Fractal Geometry of Melt Ponds
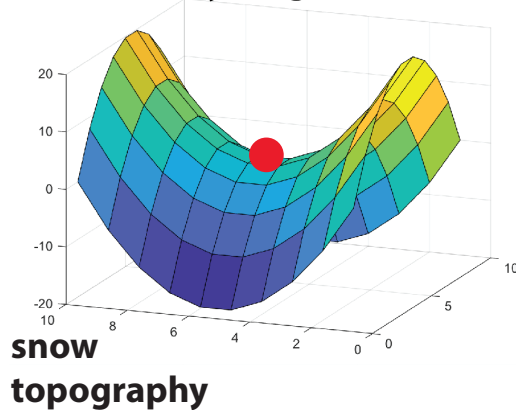
Ryleigh Moore, Jacob Jones, Dane Gollero, Court Strong, Ken Golden 2021

snow
topography

As ponds coalesce at saddle points, fractal dimension proxy isoperimetric quotient $P^2/4\pi A$ jumps, driving the transition.

Ryleigh Moore
Department of Mathematics
University of Utah

Multidisciplinary drifting Observatory for the Study of Arctic Climate (MOSAiC)

MOSAiC School aboard the icebreaker *RV Akademik Federov*

20 grad students from around the world
(3 from U.S., 1 mathematician)