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# Joint Geometric Analysis Seminar

(Part of MIST program)

## *A mean field type flow on a closed Riemann surface*

*Ms. Yamin Wang  
Renmin University of China*

### Abstract

In this talk, we first review existence results for the mean field type equation on a compact Riemann surface without boundary. Then we investigate a gradient flow related to this mean field type equation. Extending previous works, we prove the convergence of the flow with sign-changing prescribed function to a solution of the mean field equation under sufficient conditions.

Date: January 27, 2023 (Friday)  
Time: 11:00am-noon (Hong Kong time)  
ZOOM link: <https://cuhk.zoom.us/j/91805734715>

*All are Welcome*