



# Partial Differential Equations Seminar

**Title** Crystalline mean curvature flow with a volume constraint

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**Affiliation** University of Wisconsin–Madison

**Date** January 7<sup>th</sup>, 15:00 ~ 16:00

**Location** 과학관 262 강연

## Abstract

In this talk, we discuss the crystalline mean curvature flow with nonlocal forcing given by a volume constraint. We show that a natural geometric property, associated with reflection symmetries of the Wulff shape, is preserved with the flow. Based on the discrete-in-time approximation, we establish the global-in-time existence and regularity for a class of initial data with the reflection property. This talk is based on joint work with Inwon Kim (UCLA) and Norbert Pozar (Kanazawa University).