明治大学先端数理科学インスティテュート

MIMS現象数理カフェセミナー

日時：2022年2月1日（火）（13:30 – 14:10）

場所：今年度はZoomでのリモート開催となります

Approximation methods for surface constrained PDE

Elliott Ginder（Meiji University）

•Abstract: Numerical investigations of solutions to partial differential equations (PDE) are typically carried out on simple domains, such as straight lines and other flat surfaces. However, the vast majority natural phenomena (e.g., the beautiful pattern formations on the moldy doughnut shown in the figure below) involve surfaces with complex (non-flat) shapes. Consequently, in simulations and other topics contingent on the numerical approximation of surface-constrained phenomena, it becomes necessary to account for the surface's curvature. We will introduce an approximation method for realizing surface-constrained minimizing movements.

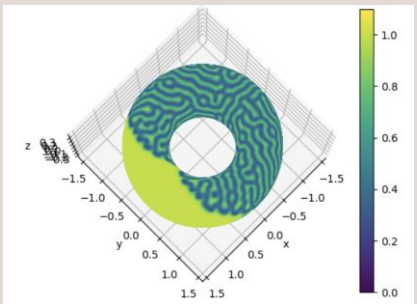

Fig. This doughnut would go great with that cup of coffee.

問い合わせ：MIMS事務室

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