

## Tight Best-Lipschitz Maps from Surfaces to Surfaces

In honor of the contributions of Frederic Helein to analysis, I pose several new problems rather than present solutions. George Daskalopoulos and I have been studying best Lipschitz maps from surfaces to surfaces. While this is motivated by Thurston's distance function in Teichmüller space, it has connections with older ideas. I will give a bit of the history about Lipschitz extensions, define the notion of tight, remind the listeners about infinity harmonic functions, and describe our approximation scheme for infinity harmonic mappings. The goal is to motivate several interesting new and I believe hard questions in analysis.

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