

# Interpolation by Zero Mean Curvature Surfaces and Related Problems

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We will talk about interpolation of two real analytic curves “close enough” by minimal surfaces in Euclidean 3-space  $E^3$  and maximal surfaces in Lorentzian 3-space  $L^3$ . This is a version of the Plateau’s problem for these zero mean curvature surfaces. Next we talk of interpolation by minimal (or maximal) surfaces of arrays of certain minimal (or maximal) surfaces placed in a certain arrangement in the plane. We need to use certain Euler-Ramanujan identities. If time permits we will mention some interesting connections of these type of identities and minimal surfaces.