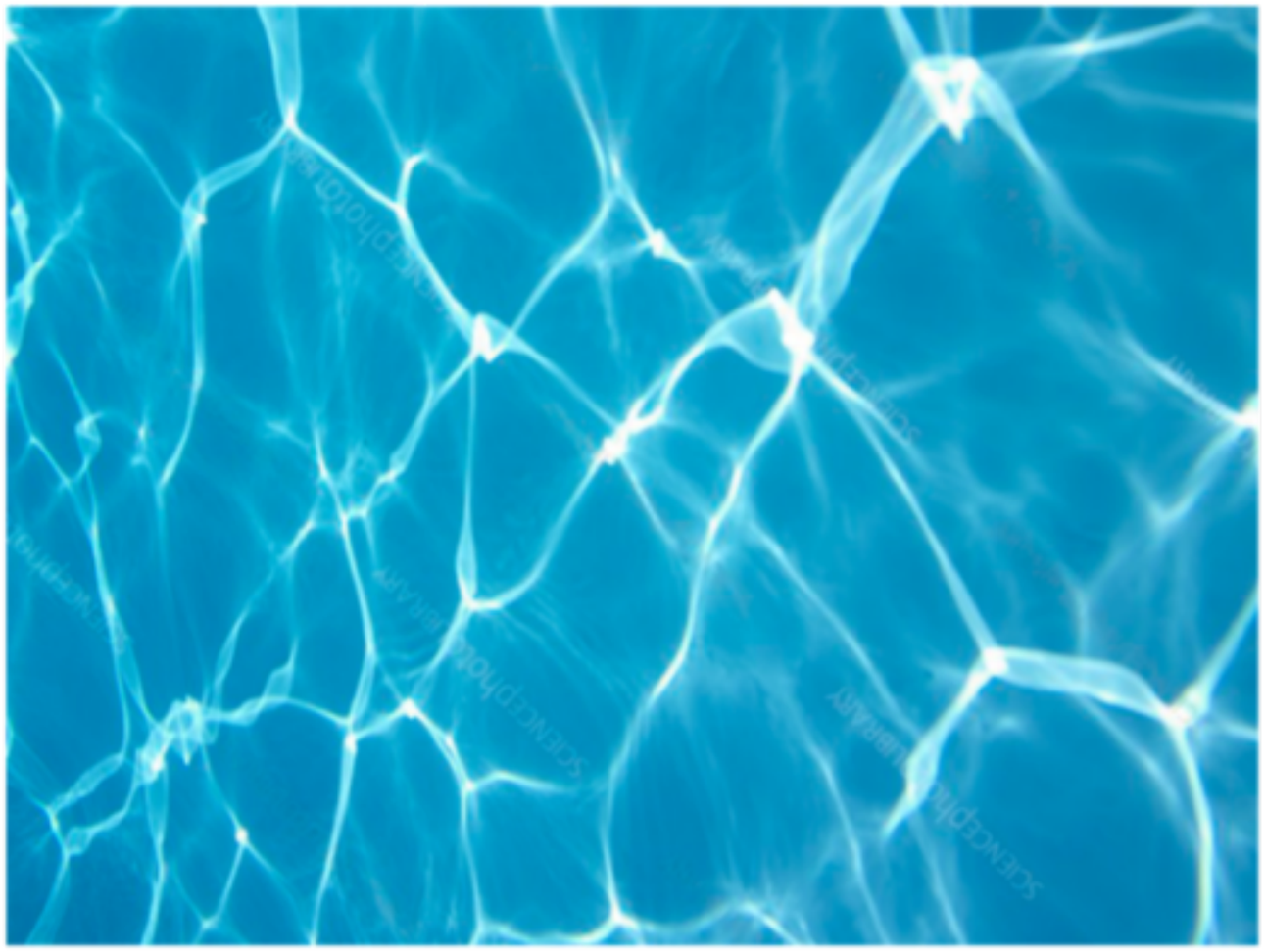
Theorem (Whitney): folds & cusps are only stable 2 dimensional caustics

preserved under small changes



folds

Cusps

all cusps are the Same!!!
(up to change of coordinates)

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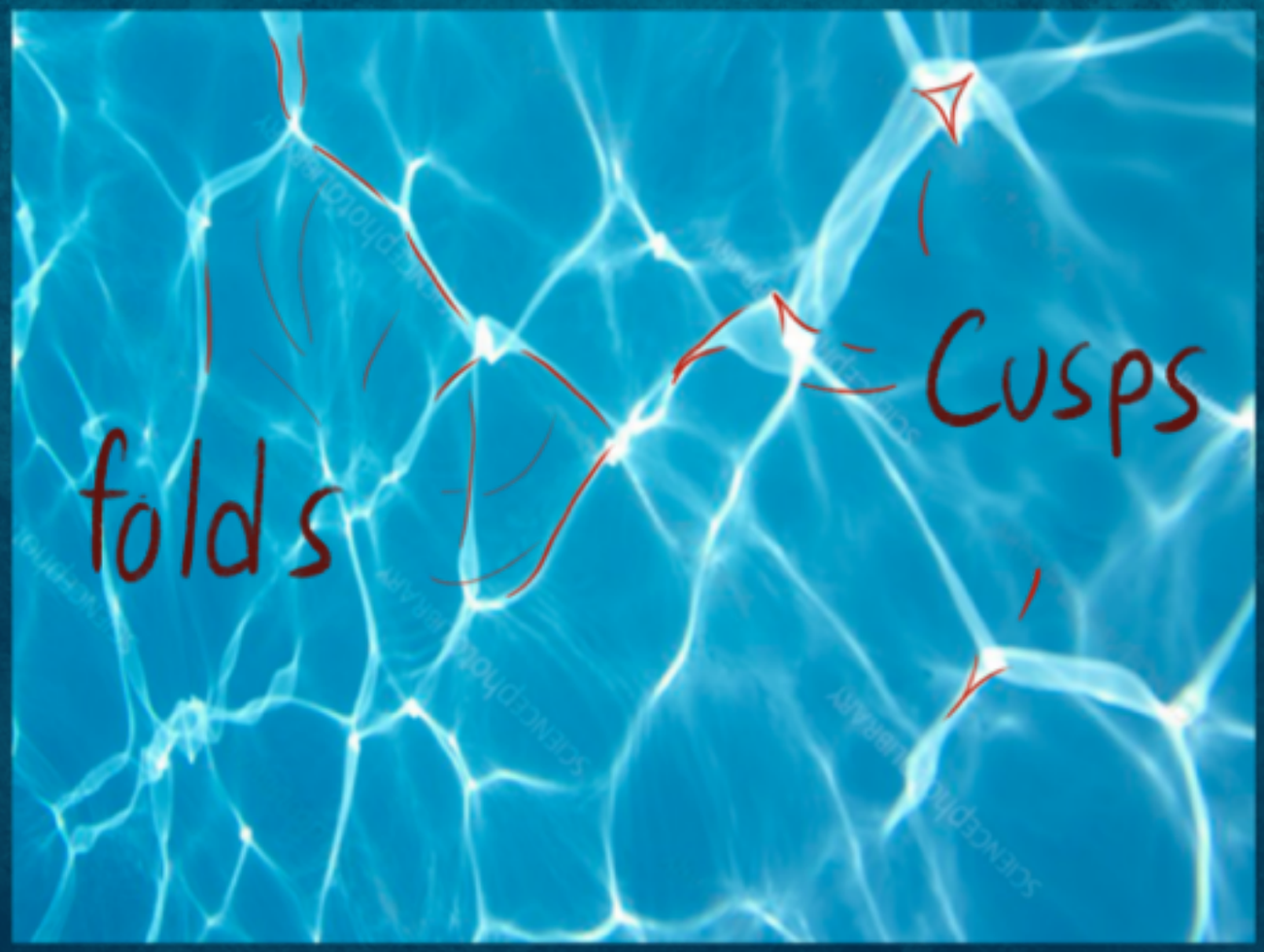

all cusps are the Same!!!

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We understand 2D caustics...