

SPEAKER:

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TITLE:

Large-Time Asymptotics of Solutions to the Kadomtsev-Petviashvili I (KP I)
Equation

ABSTRACT:

We determine the large-time asymptotics for solutions of the KP I equation

$$(u_t + 6uu_x + u_{xxx})_x = 3u_{yy}$$

with small initial data, using the IST formulated by Zhou. The inverse problem for the KP I equation is solved through a nonlocal Riemann-Hilbert problem in two dimensions.