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Generalized Hydrodynamics of the staircase model and higher spin currents

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The staircase model is an integrable modification of the sinh-Gordon model, obtained by complexifying the coupling constant. A key feature of this theory is the fact that the scaling function displays a roaming behaviour, that is, it visits all the unitary minimal conformal models when varying the temperature.
Via the generalized hydrodynamics (GHD) approach to iQFT, we develop a more physical picture of interaction in the theory, both at and away from equilibrium, relating this model to massless flows between consecutive unitary minimal models.
Using this model as a case-study, we also investigate the average currents and densities of higher spin conserved quantities in the partitioning protocol, deriving a universal scaling law which relates the spin to powers of the temperatures of the quenched systems.

Primary author: MAZZONI, Michele (City University of London)

Presenter: MAZZONI, Michele (City University of London)

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