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**Turker Ozsari\*** ([tozsari@gmail.com](mailto:tozsari@gmail.com)), Department of Mathematics, Izmir Institute of Technology, 35430 Urla, Izmir, Turkey. *Semilinear Schrödinger equations with nonlinear interior and boundary sources on the half-line.*

In this talk, we present some recent results concerning the initial-boundary value problem for semilinear Schrödinger equations on the half-line with nonlinear interior and boundary sources. We first discuss the local and global well-posedness in the fractional Sobolev spaces. Secondly, we study the interaction between the interior and boundary sources. We give a certain set of conditions which yields blow-up solutions at the energy level. In addition to the blow-up property, we also discuss the energy decay and the critical exponent for the same model (Received August 23, 2015)