On the Lax operator of the Benjamin-Ono equation and Tao's gauge transform

Thomas Kappeler
University of Zurich
tk@math.uzh.ch

Patrick Gérard Université Paris-Saclay

 $\verb|patrick.gerard@universite-paris-saclay.fr|\\$

 $\label{eq:petar} Petar \ Topalov \\ Northeastern \ University \\ \texttt{p.topalov@northeastern.edu}$

I will report on recent results on the spectral theory of the Lax operator of the Benjamin-Ono equation, discuss applications to the analysis of this equation, and explain the role of Tao's gauge transform in all this.