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Ground states for NLS on graphs: an interplay between
metric and topology

[　　] Recent developments on magnetic and optical traps for
Bose-Einstein condensates make it important to study the problem
of minimizing the NLS energy on branched structures, where, if at
least one infinite edge is present, the problem of the existence of a
ground state is non trivial. After giving a topological assumptions
that prevents ground states from existing, we show that, when such
hypothesis fail, the metric features of the graph become crucial.
This is a joint work with E. Serra and P. Tilli.

http://www.math.is.tohoku.ac.jp/research/colloquium.html