Topology Seminar

Gijs Heuts

of University of Copenhagen will be speaking on

Lie algebras and
$v_n - periodic spaces$

on March 28 at 4:30 in
MIT Room 2-131

We use the Goodwillie tower of the category of pointed spaces to relate the telescopic homotopy theory of spaces (in the sense of Bousfield) to the homotopy theories of Lie algebras and commutative coalgebras in $T(n)$-local spectra, in analogy with rational homotopy theory. As a consequence, one can determine the Goodwillie tower of the Bousfield-Kuhn functor in terms of topological Andre-Quillen homology, giving a different perspective on recent work of Behrens and Rezk.