

SPECTRA
MA 751: TOPICS IN TOPOLOGY

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Let's talk about spectra. We'll discuss different approaches to spectra and related topics. This may include:

- Freudenthal suspension and homotopy excision,
- the Spanier-Whitehead category,
- Atiyah duality,
- Adams' definition of the stable homotopy category,
- Brown representability,
- Lewis's proof that there is no good category of spectra,
- operads,
- diagram spectra (probably orthogonal), and
- equivariant spectra.

While some of these topics are technically very demanding (and fundamental to stable homotopy theory), the prerequisites are minimal (MA 651 and 661). These topics are largely orthogonal to those of MA 654.

There will be no homework in this class. Grades are based on participation