Wochenplan der Fakultät für Mathematik

Dienstag, 27.10.2020
16.15 Uhr, Zoom

Oberseminar Dynamische Systeme
Shira Tanny, Tel Aviv, “The Poisson bracket invariant: soft and hard approaches”

Abstract: In 2006 Entov and Polterovich proved that functions forming a partition of unity with displaceable supports cannot commute with respect to the Poisson bracket. In 2012 Polterovich conjectured a quantitative version of this theorem. I will discuss three interconnected topics: a solution of this conjecture in dimension two (with Lev Buhovsky and Alexander Logunov), a link between this problem and Grothendieck’s theorem from functional analysis (with Efim Gluskin), and new results related to the Floer-theoretical approach to this conjecture (with Yaniv Ganor).

Interessenten melden sich bitte bei Annika Schulte (annika.schulte@rub.de).

Donnerstag, 29.10.2020
16.00 Uhr, Zoom

Oberseminar Topologie
Nicola Bellumat, University Sheffield, “Iterated chromatic localization”

Abstract: The work of Ravenel, Devinatz, Hopkins and Smith in the 80s provided the basis of chromatic homotopy theory: its protagonists are the Morava theories $E(n)$ and $K(n)$, whose associated Bousfield localizations give us optimal means to decompose the stable homotopy category. It comes naturally to wonder how the compositions of such localizations behave: there are classical results regarding the relationship of the Bousfield classes of wedges of the above spectra which lead us to expect some kind of regularity. In this talk I will present a joint work with N. Strickland which provides a positive result in this direction: we show that, fixed an upper bound $n$ for the chromatic height, the compositions of localizations with respect to spectra which are wedges of $K(i)$, for $i$ less than or equal to $n$, are only finitely many up to isomorphism.

Interessenten melden sich bitte bei Anna Füllbek (anna.fuellbeck@rub.de).

Mittwoch, 11.11.2020
14.15 Uhr

Antrittsvorlesung
Dr. Hans Franzen, RUB, “Torus-Aktionen auf gewissen geometrischen Quotienten”
Anmeldung unter mathe-dekanat@rub.de