

# COMPLETE REDUCIBILITY, GEOMETRIC INVARIANT THEORY AND BUILDINGS

*Workshop at Bochum, February 15 - 19, 2016*

All talks will take place at Beckmanns Hof.

## Monday, 15<sup>th</sup> February

11:00 – 12:00	Registration at Beckmanns Hof
12:00 – 14:00	Lunch
14:00 – 14:10	Welcome address by Ruhr-Universität Bochum Rector Axel Schölmerich
14:10 – 15:10	George McNinch (Tufts) <i>Reductive subgroup schemes of parahoric group schemes</i>
15:10 – 15:30	Coffee
15:30 – 16:30	Oliver Goodbourn (Bochum) <i>Reductive pairs from representations of algebraic groups</i>

## Tuesday, 16<sup>th</sup> February

9:30 – 10:30	Guy Rousseau (Nancy) <i>Buildings for Kac-Moody groups</i>
10:30 – 11:00	Coffee
11:00 – 12:00	Ben Martin (Aberdeen) <i>Cocharacter-closed orbits and the Centre Conjecture</i>
12:00 – 14:00	Lunch
14:00 – 15:00	Alexander Lytchak (Köln) <i>Metric versions of the centre conjecture in small dimension</i>
15:00 – 15:30	Coffee
15:30 – 16:30	Bernhard Mühlherr (Gießen) <i>Tame descent in buildings</i>

## Wednesday, 17<sup>th</sup> February

9:30 – 10:30	David Stewart (Newcastle) <i>Unipotent radicals of pseudo-reductive groups</i>
10:30 – 11:00	Coffee
11:00 – 12:00	Ralf Köhl (Gießen) <i>Generalized spin representations</i>
12:00 – 14:00	Lunch
15:00 – 17:00	Excursion: Zeche Zollverein tour
19:00	Conference dinner at Livingroom

## Thursday, 18<sup>th</sup> February

9:30 – 10:30	Donna Testerman (Lausanne) <i>Reductive overgroups of regular elements in simple algebraic groups</i>
10:30 – 11:00	Coffee
11:00 – 12:00	Adam Thomas (Bristol) <i>The Jacobson-Morozov Theorem and Complete Reducibility of Lie Subalgebras</i>
12:00 – 14:00	Lunch
14:00 – 15:00	Paul Levy (Lancaster) <i>Dual singularities in exceptional type nilpotent cones</i>
15:00 – 15:30	Coffee
15:30 – 16:30	Martin Liebeck (Imperial) <i>Regular orbits and generic stabilizers for linear actions of algebraic groups</i>

## Friday, 19<sup>th</sup> February

9:30 – 10:30	Alexander Premet (Manchester) <i>Non-semisimple maximal subalgebras of exceptional Lie algebras</i>
10:30 – 11:00	Coffee
11:00 – 12:00	Stephen Donkin (York) <i>Calculating characters of cohomology of line bundles on generalised flag varieties in positive characteristic</i>
12:00 – 14:00	Lunch