

# Complex Behavior in Correlated Electron Systems

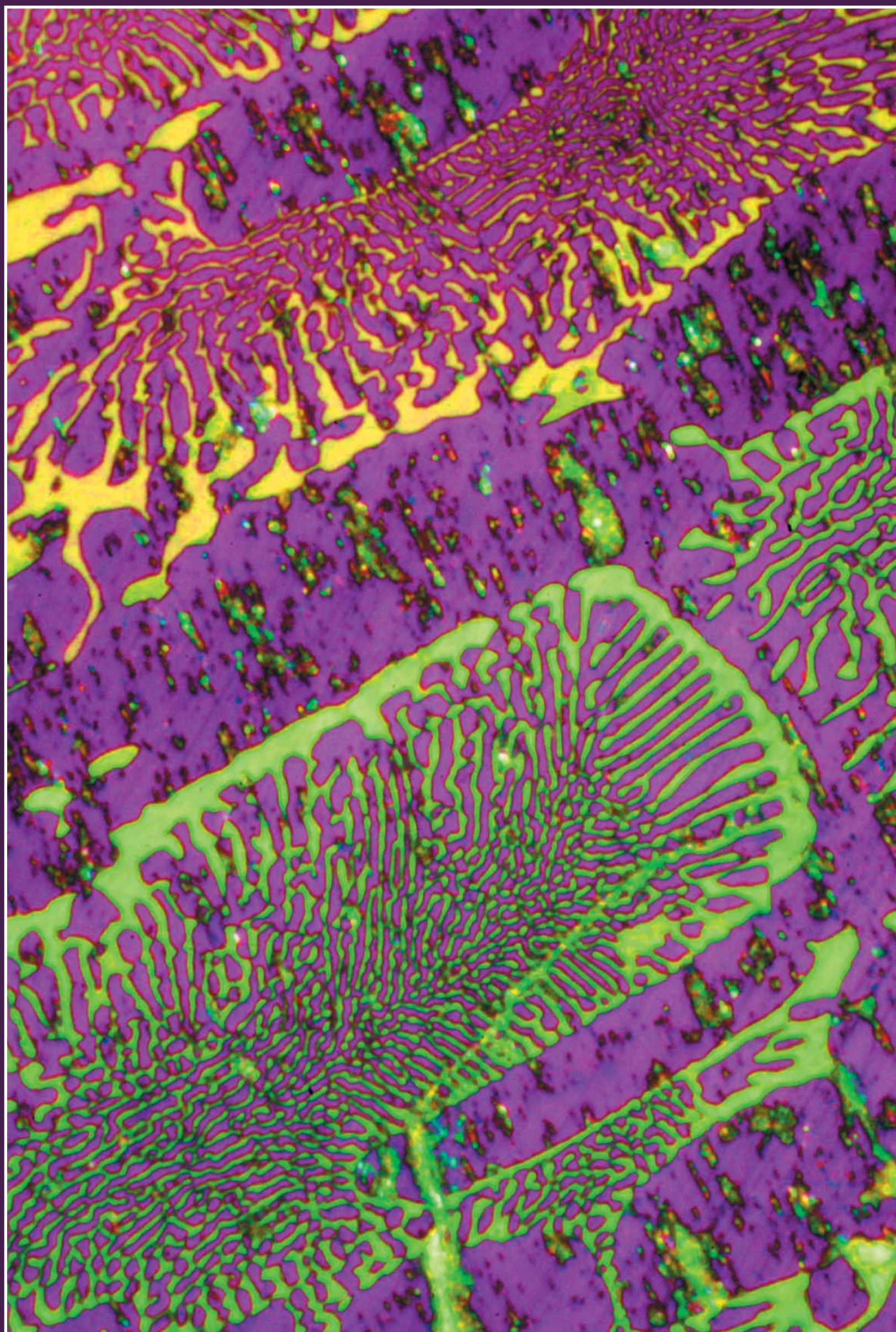
Workshop 1 – 18 August 2005, Leiden University

## Organizers

- V. Dobrosavljevic, Tallahassee
- E.R. Dagotto, Knoxville
- S. Sachdev, New Haven
- J. Zaanen, Leiden

## Topics

- Inhomogeneous ordering incuprates, CMR-manganites, ruthenates
- Glassy behavior and glassy dynamics of correlated electrons
- Disorder-driven metal-insulator transitions, doped semiconductors, 2D-MIT
- Frustrated random magnetism, quantum spin glass behavior, quantum Griffiths phases
- Non-Fermi liquid behavior in disordered heavy fermion systems and Kondo alloys
- Meta-stability close to Mott transitions
- Bubble and stripe phases in the Quantum Hall regime



- "Percolative conduction in the half-metallic-ferromagnetic and ferroelectric mixture of (La,Lu,Sr)MnO<sub>3</sub>. The purple regions are hexagonal-LuMnO<sub>3</sub> (ferroelectric and antiferromagnetic) and the bright regions are orthorhombic-(La,Sr)MnO<sub>3</sub> (ferromagnetic metal) [Park S., Hur N., Guha S., Cheong S.W., Physical Review Letters 92, 167206 (2004)]"

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