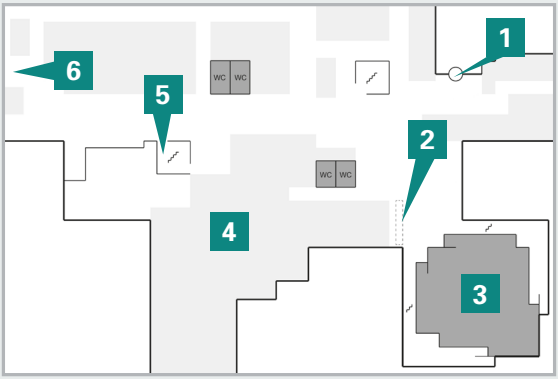

1	Entrance	3	Auditorium	5	Dinner
2	Registration	4	Library	6	MPI-IS

StAR-M 2014
Programme

StEM
Stuttgart Center for Electron Microscopy

Stuttgart Atomic Resolution Microscopy Symposium

15 - 16 December 2014

JEOL
Solutions for Innovation

MAX-PLANCK-GESELLSCHAFT

StAR-M 2014
Programme

Monday 15 December

8:00-10:00 Registration

9:00 Reception

10:00-11:00 Inauguration Ceremony for the JEOL ARM200F TEMs at StEM
Welcoming Addresses

11:00-12:30 Scientific Programme

H. Sawada
High Resolution Imaging by Aberration Corrected Microscopy

M. Haider
Advanced Instrumentation for High Resolution TEM and STEM

N. Browning
Quantitative In-Situ (S)TEM and DTEM: From High Spatial Resolution to High Temporal Resolution

12:30-14:00 Lunch and TEM Lab Tours

14:00-15:30 Scientific Programme

Q. Ramasse
Atom-by-Atom Characterization and Defect Engineering in Low-Dimensional Materials

A. Kirkland
Structural Studies of Defects and Defect Dynamics in Graphene

J. Meyer
Recent Developments in the Manipulation and Analysis of Radiation Sensitive 2-D Materials

15:30-16:00 Coffee Break and TEM Lab Tours

16:00-17:30 Scientific Programme

K. Suenaga
Low Voltage Electron Microscopy for Single Atom Spectroscopy

J. Etheridge
Quantitative STEM - Development of Methods and Applications to Materials Problems

C. Koch
Multiple-Scattering Assisted Electron Microscopy

18:00 Symposium Dinner

StAR-M 2014
Programme

Tuesday 16 December

9:00-10:30 Scientific Programme

P. Batson
Plasmonic Response and Forces in Sub-Nanoscale Objects

G. Botton
EELS at High Energy/Spatial Resolution for Plasmonics and Oxides with Highly-Correlated Electrons

M. Kociak
Nanoscale Optics with Fast Electrons?

10:30-11:00 Coffee Break and TEM Lab Tours

11:00-12:30 Scientific Programme

M. Watanabe
Theoretical Approaches for Quantification of Atomic Resolution X-ray Maps in Aberration-Corrected STEM

P. Schattschneider
EMCD - Magnetic Chiral Dichroism in the Electron Microscope

J. Verbeeck
Progress and Challenges in Electron Vortex Research

12:30-14:00 Lunch and TEM Lab Tours

14:00-15:30 Scientific Programme

R. Dunin-Borkowski
Towards Three-Dimensional Characterization of Magnetic Moments Inside Individual Nanocrystals in the TEM

M. Lehmann
Methodical Progress in Electron Holography

M. Hytch
In-Situ Electron Holography for the Measurement of Fields

15:30-16:00 Coffee Break and TEM Lab Tours

16:00-17:30 Scientific Programme

S. Pennycook
STEM-EELS Imaging of Complex Oxides

J. Mayer
How can Atomic Resolution TEM Contribute to the Development of New Steels?

Closing Remarks