

Session 37, The Mathematics of Electronmicroscopic Imaging

Thursday 19, Room 211

- 11:30–12:30 **Algebraic reconstruction of 2D crystals from their projections**
Gabor Herman
- 12:30–13:00 **Parallel and distributed computing for efficient tomographic reconstructions**
Inmaculada García Fernández
- 13:00–13:30 **Simplification of 3D densities**
Herbert Edelsbrunner
- 15:30–16:00 **Computational challenges in 3-D reconstruction of virus particles**
Wah Chiu
- 16:00–16:30 **Fourier transforms of trains of pulses on various grids**
Edgar Garduño
- 16:30–17:00 **Reconstruction by Chahine's method from projections corrupted by electron microscope aberrations**
Jorge Zubelli
- 17:30–18:30 **Image processing in biological 3D electron microscopy**
José M. Carazo García
- 18:30–19:00 **A method for estimating the CTF in electron microscopy and its application to 3D reconstruction**
Roberto Marabini
- 19:00–19:30 **Angular assignment in 3D electron microscopy using PCA and wavelet decomposition**
Carlos Óscar Sánchez Sorzano
- 19:30–20:00 **Self-organizing maps for the analysis of electron microscopy images**
Alberto Pascual Montano