



Research Training Group 2088  
Georg-August-Universität Göttingen

## Workshop: Sparse Approximation with Exponential Sums and Applications

**Monday, November 26, 2018**

Time	Speaker	Topic
14.00-15.00	Annie Cuyt	Beyond classical exponential analysis: generalizations, connections and applications
15.00-15.30	Ferre Knaepkens	From exponential analysis to Padé approximation and tensor decomposition, in one and more dimensions
15.30-16.00	Coffee break	
16.00-16.30	Ivan Markovsky	Using Hankel low-rank approximation for sparse signal recovery
16.30-17.00	Mariya Ishteva	Nonlinear singular value decomposition
17.00-17.30	Johan Gielis	Universal natural shapes

**Tuesday, November 27, 2018**

Time	Speaker	Topic
09.00-09.30	Kilian Stampfer	Generalized Operator-based Prony method
09.30-10.00	Ingeborg Keller	Reconstruction of Stationary and Non-stationary Signals by the Generalized Prony Method
10.00-10.30	David Li	Fast acquisition and exponential analysis for fluorescence lifetime imaging/sensing applications in biomedical sciences
10.30-11.00	Coffee break	
11.00-11.30	Sina Bittens	Real sparse fast DCT for vectors with short support
11.30-12.00	Stig Petersen	Spatially Aware Switched-Beam Antenna (SASBA) for Ultra-Low Power Wireless Sensor Networks

The workshop will take place in the **NAM-SR (MN 55)**, Lotzestr. 16-18, 37083 Göttingen.