

# MIDWESTERN WORKSHOP ON ASYMPTOTIC ANALYSIS

Indiana University - Purdue University Fort Wayne  
Friday and Saturday, September 19-20, 2014

<b>Friday, September 19</b>		
9:30-10:00	<i>Coffee, Continental Breakfast - Faculty Lounge, KT 154</i>	
10:00-10:10	OPENING J. Albayyari, Associate VC for Research, IPFW	
10:10-10:50	Brian Simanek, Vanderbilt University	Orthogonal Polynomials on Polynomial Lemniscates
11:00-11:40	Doug Hardin, Vanderbilt University	Universal Lower Bounds for Potential Energy of Spherical Codes
11:50-12:30	Ed Saff, Vanderbilt University	Zeros of Asymptotically Extremal Polynomials
12:30-2:00	<i>LUNCH BREAK</i>	
2:00-2:40	Dusty Grundmeier, Ball State University	Asymptotic Properties of Group-Invariant CR Mappings
2:50-3:30	Yuan Zhang, IPFW	CR Transversality of Holomorphic Maps into Hyperquadrics
3:30-4:00	<i>COFFEE BREAK Faculty Lounge, KT 154</i>	
4:00-4:40	Alexander Izzo Bowling Green State University	Manifolds with Polynomially Convex Hull without Analytic Structure
4:50-5:30	László Lempert, Purdue University	Noncommutative Potential Theory
6:30 - 9:30	<i>Reception at Peter Dragnev's Home</i>	
<b>Saturday, September 20</b>		
9:30-10:00	<i>Coffee, Continental Breakfast Faculty Lounge, KT 154</i>	
10:00-10:40	Pavel Bleher, IUPUI	Six-Vertex Model with Partial Domain Wall Boundary Conditions: Ferroelectric Phase
10:50-11:30	Alexander Its, IUPUI	On the Transitional Asymptotics of the Sine-Kernel Determinant
11:40-12:20	Tom Bloom, University of Toronto	Large Deviation for Outlying Coordinates in Beta Ensembles
12:30-2:00	<i>LUNCH BREAK</i>	
2:00-2:40	Yifei Pan, IPFW	On Flat Solutions of $\bar{\partial}$ -Equation in Any Dimension
2:50-3:30	Greg Knese, Washington University	Cyclic polynomials in two variables
3:30-4:00	<i>COFFEE BREAK Faculty Lounge KT 154</i>	
4:00-4:40	Alexander Aptekarev, Keldysh Institute of Applied Math	Asymptotics of sharp constants of Markov-Bernstein inequalities in integral norm with Jacobi weight
4:50-5:30	Andrei Martínez-Finkelshtein, Universidad de Almería	Weak and strong asymptotics for the Pollaczek multiple orthogonal polynomials