Conference on Singular and Oscillatory Integrals

Schedule of Events

Thursday, January 7

Morning Program, Van Vleck B130

8:20 –8:30		Welcome
8:30 - 9:20	Alexander Nagel	*Remarks on the mathematical work of Stephen Wainger* Van Vleck B130
9:40 –10:40	Akos Magyar	*Spherical maximal operators on integer points* Van Vleck B130
10:40–11:30		Coffee Break, 9th Floor Lounge.
11:30–12:30	Kate Okikiolu	*Determinant of the Laplacian in geometry*

Afternoon Program

2:30 –3:30	Guido Weiss	*On the connectivity of wavelets*
3:30 –4:00		Coffee Break, 9th Floor Lounge
4:00 –5:30		Short talks, Van Vleck B135 and B115
7:00 –8:00	James Wright	*Hilbert transforms and maximal functions along curves: An expository introduction, I.* Van Vleck B135

Short talks, Thursday, January 7

Session I, Van Vleck B135

4:00 –4:15   Alexander Stokolos   *Low dimensional maximal functions*

4:25 –4:40   Mark Pinsky   *Pointwise Inversion of Fourier-Bessel Series*

4:50 –5:05   Janine Wittwer   *A $|w|_{A_2} Log(|w|_{A_2})$ bound on the martingale transform in $L^2([0,1], w)$*

5:15 –5:30   Atanas Stefanov   *Strichartz estimates for the Schrödinger equation with radial data*

Session II, Van Vleck B115

4:00 –4:15   Hyeonbae Kang   *Layer potentials and an inverse conductivity problem with one measurement*

4:25 –4:40   Magali Folch-Gabayet   *A family of strongly singular operators*

4:50 –5:05   Hyungwoon Koo   *Poisson integral and harmonic Bergman functions on half spaces*

5:15 –5:30   Jose Barrionuevo   *A weak type inequality*

Friday, January 8

Morning Program, Van Vleck B130

8:30 –9:30	Michael Christ	*On the spectra of Schrödinger operators with intermediate range potentials*
9:40 –10:40	Elias M. Stein	*Some discrete analogues of fractional integration*
10:40–11:30		Coffee break, 9th Floor Lounge
11:30–12:30	Wilhelm Schlag	*On the minima of certain exponential sums*

Afternoon Program

2:00 –2:30	Gerd Mockenhaupt	*Some remarks on restriction of Fourier transforms* Van Vleck B130
2:40 –3:10	Konstantin Oskolkov	*Schrödinger equation and oscillatory Hilbert transforms of second degree.* Van Vleck B130
3:10 –3:40		Coffee Break, 9th Floor Lounge
3:40 –5:10		Short talks. Van Vleck B135 and B115.
7:00 –8:00	Anthony Carbery	*Hilbert transforms and maximal functions along curves: An expository introduction, II.* Van Vleck B135

Short talks, Friday, January 8

Session I, Van Vleck B135

3:40 –3:55	Jonathan Bennett	*Some oscillatory singular integrals with variable flat phases*
4:05 –4:20	Sonsoles Perez	*Maximal functions and Hilbert transforms along variable flat curves*
4:30 –4:45	Gary Sampson	*L^p type estimates for oscillatory integrals*
4:55 –5:10	Dashan Fan	*De Leeuw type multiplier theorems on various function spaces*
5:25 –5:40	Marshall Ash	*Two questions of uniqueness*

Session II, Van Vleck B115

3:40 –3:55	Vyacheslaw Rychkov	*Linear extension operators for restrictions of function spaces to irregular open sets*
4:05 –4:20	Erik Talvila	*Pointwise estimates of the Riesz potential*
4:30 –4:45	Sharad Chandarana	*Hypersingular integrals along curves in space*
4:55 –5:10	Christopher Winfield	*A parametrix for local solutions of some partial differential equations on the Heisenberg group*

Saturday, January 9

Morning Program, Van Vleck B130

8:30 –9:30	Fulvio Ricci	*Flag kernels and Cauchy-Szegö projections on tube-type domains*
9:45 –10:45	Christopher Sogge	*Weighted Strichartz estimates and existence for nonlinear wave equations*
10:45–11:30		Coffee break, 9th Floor Lounge
11:30–12:30	Sarah Ziesler	*Singular integrals associated with hypersurfaces*

Afternoon Program, Van Vleck B130

2:15 –3:15	Duong Phong	*On uniform estimates and stability for integrals of analytic functions*
3:25 –4:25	Nets Katz	*Hexagons, distances, and Besicovitch sets*

Conference Banquet

6:00 –7:00		Cash Bar in Tripp Commons, Memorial Union
7:00		Dinner in Tripp Commons, Memorial Union

Sunday, January 10

Morning Program, Van Vleck B130

8:30 –9:30	Carlos Kenig	*Well posedness of the Ishimori system and related topics*
9:45 –10:45	Allan Greenleaf	*Oscillatory integrals and generalized Radon transforms*
10:45–11:30		Coffee break, 9th Floor Lounge
11:30–12:30	Terence Tao	*Rough convolution kernels on homogeneous spaces*

Afternoon Program, Van Vleck B130

2:00 –3:00	William Beckner	*Geometric Analysis: Conformal invariance, critical phenomena and $SL(2, R)$*
3:00 –3:30		Coffee Break, 9th Floor Lounge
3:30 –4:00	Luis Vega	*Weighted L^2 estimates for the Helmholtz equation by a multiplier method*
4:10 –4:40	Alex Iosevich	*Lattice points, Fourier bases, and related problems*
4:50 –5:20	Daryl Geller	*Resolvents and powers of operators on the Heisenberg group*
5:30 –6:00	Joaquin Ortega	*Imbedding L^p potential spaces into $L^q(dm)$*

Monday, January 11

Morning Program, Van Vleck B130

8:30 –9:30	Detlef Müller	*On spectral multipliers for Sub-Laplaciens on rank one AN-groups*
9:45 –10:45	Thomas Wolff	*Decay of circular means of Fourier transforms of measures*
10:45–11:30		Coffee break
11:30–12:30	Robert Fefferman	*Maximal functions and covering lemmas*