The 7th Korean Astrophysics Workshop on Dynamics of Disk Galaxies

October 21-24, 2013

International Conference Hall, Building 25-1, Seoul National University, Seoul, KOREA

Oct. 21, Monday (Day 1)

[08:00-08:50] Registration

[08:50-09:00] Welcome Address

Myung-Hwan Kim (Dean of the College of Natural Sciences, Seoul National University)

Session 1 Disk Structure

Chair: Ortwin Gerhard

[09:00-09:25] Understanding Assembly of Disks using Local and High Redshift Bars from the Spitzer Survey of Stellar Structure in Galaxies, DEEP2, AEGIS and COSMOS

Kartik Sheth (National Radio Astronomy Observatory)

- [09:25-09:50] Multi-component Structural Decompositions of S4G Galaxies Eija Laurikainen (Finnish Centre for Astronomy with ESO)
- [09:50-10:15] Bar Parameter Evolution over the Last 7 Gyr Isabel Perez (Universidad de Granada)
- [10:15-10:30] Disk Breaks of Barred Galaxies at 3.6 µm with the Spitzer Survey of Stellar Structure in Galaxies (S4G) *Taehyun Kim (Seoul National University)*

Taenyun Kim (Seout National Univers

- [10:30-10:40] Photo Session
- [10:40-11:00] Coffee Break
- [11:00-11:25] Connections between Stellar Populations and Disk Dynamics Stacy McGaugh (Case Western Reserve University)
- [11:25-11:50] Structure of Bulges and Bars Juntai Shen (Shanghai Astronomical Observatory)
- [11:50-12:15] The Origin of Thick Discs and Some Comparisons on the Results on the Thick Disc in the Milky Way with Those on Nearby Galaxies Sebastien Comeron (FINCA)
- [12:15-12:30] The Portrait of Malin 2: on the General Structure of the Giant Low Surface Brightness Galaxy Anastasia Kasparova (SAI MSU)
- [12:30-12:45] The Distribution of Mass within Spiral Galaxies: Unique Solutions from Gas and Stellar Kinematics

Thomas Martinsson (Leiden Observatory)

[12:45-14:00] Lunch

Session 2 Pattern: Observation

Chair: Lia Athanassoula

[14:00-14:25]	High Resolution 2D Velocity Fields in Disk Galaxies: Spurs, Feathers, and Interlocking Resonances John Beckman (Instituto de Astrofísica de Canarias)
[14:25-14:50]	The Central Black Hole Mass - Spiral Arm Pitch Angle Relation: Results and Future Work
	Julia Kennefick (University of Arkansas/Fayetteville)
[14:50-15:15]	The Signatures of Long-lived Spirals in Disk Galaxies.
	Eric Martinez-Garcia (INAOE)
[15:15-15:30]	Testing Density Wave Theory with Stellar Populations around Spiral Arms in M81
	Yumi Choi (University of Washington)
[15:30-15:45]	The Central Mass Distribution of Spiral Galaxies from Their Inner Rotation Curves
	Santiago Erroz-Ferrer (IAC)
[15:45-16:15]	Coffee Break
[16:15-16:40]	Bar-driven Spirals
	Heikki Salo (Univ. of Oulu, Finland)

- [16:40-17:05] Morphology and Environment of Spiral Galaxies HongBae Ann (Pusan National University)
- [17:05-17:20] N-body Simulations of Double-barred (S2B) Galaxies From Cold Inner Disks Min Du (Shanghai Astronomical Observatory)
- [17:20-17:35] Uncertainties in the Deprojection of The Observed Bar Properties Yanfei Zou (Shanghai Astronomical Observatory)

Oct. 22, Tuesday (Day 2)

Session 3 Pattern: Theory

Chair: Kristine Spekkens

[09:00-09:50]	Spiral Structure in Galaxies
	Jerry Sellwood (Rutgers University)
[09:50-10:15]	Manifold-Driven Spiral Structure
	Lia Athanassoula (Laboratoire d'Astrophysique de Marseille, FRANCE)
[10:15-10:30]	The Likelihood of Bars in Galaxies
	Albert Bosma (Laboratoire d'Astrophysique de Marseille, FRANCE)

[10:30-11:00] Coffee Break

[11:00-11:25]	Dynamics of the ISM in Galactic Spirals
	Keiichi Wada (Kagoshima University)
[11:25-11:50]	A Large Scale MHD, Resonance-Related Instability in a Galactic-Like
	Spiral Disk and its Consequences
	Marco Martos (UNAM)
[11:50-12:05]	Spiral Structure and Mass Inflows in Spiral Galaxies
	Yonghwi Kim (Seoul National University)
[12:05-12:20]	Nuclear Rings in Simulated Barred Galaxies
	Zhi Li (Shanghai Astronomical Observatory)
[12:20-12:35]	A Numerical Study of Star Formation in Nuclear Rings of Barred-Spiral
	Galaxies
	Woo-Young Seo (Seoul National University)

[12:35-14:00] Lunch

Session 4 Secular Evolution

Chair: Juntai Shen

[14:00-14:25]	Secular Evolution of Disk Galaxies
	Bruce Elmegreen (IBM Research)
[14:25-14:50]	From a Clump Cluster to a Disc Galaxy
	Shigeki Inoue (Korea Astronomy and Space Science Institute)
[14:50-15:15]	Radial Migration in Spiral Galaxies
	Rok Roskar (University of Zurich)
[15:15-15:30]	Core Creation in Galaxies and Haloes via Sinking Massive Objects
	Tobias Goerdt (UA Madrid)
[15:30-16:00]	Coffee Break
[16:00-16:15]	Bars in Disk Galaxies: Spin, Gas Content and Environment
	Bernardo Cervantes-Sodi (KIAS)
[16:15-16:30]	Disk Galaxies of the Local Group: Dynamics from HST Proper Motion Studies
	Sangmo Sohn (Space Telescope Science Institute)
[16:30-16:45]	Gas Dynamics in High-Redshift Galaxies
	Dominik Riechers (Cornell University)
[16:45-17:10]	Intriguing Kinematics of the Globular Clusters in the Giant Disk Galaxy M31

Myung Gyoon Lee (Seoul National University)

[17:10-17:35] Bayesian Spectroscopy, Stellar Parameters and the Galactic Disc Ralph Schönrich (University of Oxford)

[18:30-21:00] Banquet

Oct. 23, Wednesday (Day 3)

Session 5 Gaseous Component

Chair: Keiichi Wada

[09:00-09:25]	Gas Accretion: Formation and Evolution of Disks	
	Filippo Fraternali (University of Bologna)	
[09:25-09:50]	On the Nature of Star Forming Regions as a Function of Galactic Dynamics	
	Florent Renaud (CEA-Saclay, Paris)	
[09:50-10:05]	Hydrodynamical Simulations of the Barred Spiral Galaxy NGC 1097	
	Lien-Hsuan Lin (ASIAA)	
[10:05-10:30]	Coffee Break	
[10:30-10:55]	Gas Dynamical Processes: Star Formation and AGN Fueling and Feedback Francoise Combes (Observatoire de Paris)	

- [10:55-11:20] Gas Dynamics of Galaxies under ICM Pressure Aeree Chung (Yonsei University)
- [11:20-11:35] The Influence of Ram Pressure on the Evolution of Tidal Dwarf Galaxies Rory Smith (Universidad de Concepcion)

[11:35-12:20] Lunch

[12:20-] Afternoon Tour

Oct. 24, Thursday (Day 4)

Session 6	Milky Way	Chair: Jerry Sellwood
[09:00-09:25]	Kinematics and Composition of the Galactic Bulge	
	Michael Rich (UCLA)	
[09:25-09:40]	Kinematic Features of a Milky Way Bulge Model	
	Yujing Qin (Shanghai Astronomical Observatory, G	CAS)
[09:40-10:05]	Mapping the Milky Way Structure with Masers	
	Ye Xu (PMO)	

[10:05-10:30] Inward Gas Migration from the Galactic Disk to the Vicinity of the Central Black Hole

Sungsoo Kim (Kyung Hee University)

[10:30-11:00] Coffee Break

- [11:00-11:25] New results on the Structure of the Galactic Stellar Disk Robert Benjamin (University of Wisconsin)
- [11:25-11:40] GALAH View of the Galactic Disk Gayandhi De Silva (AAO)
- [11:40-12:05] The Chemo-dynamical Structure of the Milky Way Jo Bovy (Institute for Advanced Study)
- [12:05-12:20] The Impact of LAMOST and Other Major Surveys on the Kinematic Understanding of the Solar Volume Martin Smith (Shanghai Astronomical Observatory)

[12:20-14:00] Lunch

Session 7 Modeling

Chair: Kartik Sheth

[14:00-14:25]	Made-to-measure and Dynamical Modeling
	Ortwin Gerhard (Max Planck Institute for Ex. Physics)
[14:25-14:50]	Fitting the Kinematics of Disk Galaxies: Towards a Model-Based Approach
	Kristine Spekkens (Royal Military College of Canada)
[14:50-15:05]	The Stellar Velocity Ellipsoid and the Multi-Component Stability of Galaxy
	Disks
	Kyle Westfall (Kapteyn Astronomical Institute)
[15:05-15:20]	Tomographic Study of Buckled Bar Models
	Zhao-Yu Li (Shanghai Astronomical Observatory)
[15:20-15:50]	Coffee Break

[15:50-16:15] Torus Modeling

Paul McMillan (Oxford University)

[16:15-16:30] Modeling the Spatially Resolved Star Formation History and Radial Flows in CALIFA Disk Galaxies

Bruno Jungwiert (Astronomical Institute ASCR, Prague)

[16:30-17:00] Meeting Summary Bruce Elmegreen (IBM Research)

Posters

- [P-1] Are Star Clusters in the Bars and Nuclear Rings of Disk Galaxies Special? In Sung Jang (Seoul National University)
- [P-2] Construction of Global Magnetic Field Structure Model in Disk Galaxies with Three Dimensional Magnetohydrodynamic Simulations: Effects of Steady Spiral Arms Nakamura Sho (Tohoku University)
- [P-3] Correlations of Disc Structural Parameters of Early Type Galaxies with Ionised Gas Dhanya Joseph (University of Calicut)
- [P-4] Dependence of Barred Galaxy Fraction on Galaxy Properties and Environment Gwang-Ho Lee (Seoul National University)
- [P-5] Do Bars Trigger Activity in Galactic Nuclei? Gwang-Ho Lee (Seoul National University)
- [P-6] Recent Star Formation History of M31 and M33 Yongbeom Kang (Korea Astronomy and Space Science Institute)
- [P-7] Specific Angular Momentum Distribution of Disk Galaxies Ji Hoon Kim (Seoul National University)
- [P-8] The Influence of Shear Motion on Giant Molecular Associations in Spiral Galaxies Yusuke Miyamoto (Ibaraki University)
- [P-9] The Structure and Kinematics of the Milky Way from Parallaxes of High Mass Star Forming Regions

Jingjing Li (Purple Mountain Observatory)