Monday, October 21

8:30-9:00 Registration of participants
9:00-9:30 Authorities' greetings and introduction

9:30-11:00 **Prof. Chris Peterson** (Colorado State University) – Bridging the Gap: Numerics and Exactness, Theory and Applications, I

11:00-11:30 Welcome Coffee break

11:30-13:00 **Prof. Hirotachi Abo** (University of Idaho) – Secant and Join Varieties, I

15:00-16:00 **Prof. Hirotachi Abo** (University of Idaho) – Computer session and open session

16:00-16:30 Coffee break

16:30-18:30 Computer session and open session

Tuesday, October 22

9:30-11:00 **Prof. Chris Peterson** (Colorado State University) – Bridging the Gap: Numerics and Exactness, Theory and Applications, II

11:00-11:30 Coffee break

11:30-13:00 **Prof. Hirotachi Abo** (University of Idaho) – Secant and Join Varieties, II

15:00-16:00 **Prof. Hirotachi Abo** (University of Idaho) – Computer session and open session

16:00-16:30 Coffee break

16:30-18:30 Computer session and open session

Wednesday, October 23

9:30-11:00 **Prof. Volkmar Welker** (University of Marburg) – Algebra of Golod rings, I

11:00-11:30 Coffee break

11:30-13:00 **Prof. Chris Peterson** (Colorado State University) – Bridging the Gap: Numerics and Exactness, Theory and Applications, III

15:00-16:00 **Prof. Volkmar Welker** (University of Marburg) – Algebra of Golod rings, II

16:00-16:30 Coffee break

16:30-18:30 Computer session and open session

Thursday, October 24

9:30-11:00 **Prof. Vicentiu Radulescu** (Romanian Academy)
1. Basic variational and topological methods
2. The subcritical Emden-Fowler equation

11:00-11:30 Coffee break

11:30-13:00 **Prof. Volkmar Welker** (University of Marburg) – Geometry of Moment Angle Complexes, I

15:00-16:00 **Prof. Volkmar Welker** (University of Marburg) – Geometry of Moment Angle Complexes, II

16:00-16:30 Coffee break

16:30-18:30 Computer session and open session

Friday, October 25

9:30-11:00 **Prof. Vicentiu Radulescu** (Romanian Academy)
1. Emden-Fowler equations on compact Riemannian manifolds
2. Yamabe equations on Riemannian manifolds

11:40-11:10 Coffee break

11:10-12:50 **Prof. Volkmar Welker** (University of Marburg) – Nice initial ideals of classical Gorenstein rings, I

15:00-16:00 **Prof. Volkmar Welker** (University of Marburg) – Nice initial ideals of classical Gorenstein rings, II

16:00-16:30 Coffee break

16:30-18:30 Computer session and open session

Saturday, October 26

Workshop

Main Organizers

Chris Peterson (Colorado State University)
Gaetana Restuccia (University of Messina)
Rosanna Utano (University of Messina)

Local Organizers

Gaetana Restuccia
Rosanna Utano
Maurizio Imbesi
Gioia Failla
Monica La Barbiera
Paola Staglianò

Sponsors

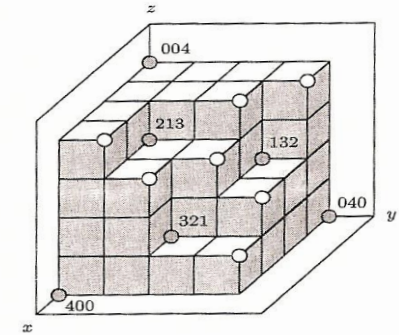Istituto Nazionale di Alta Matematica

Università di Messina

Accademia Peloritana dei Pericolanti

Università di Messina

CCAAG IV

International School on

Computational Commutative Algebra

and Algebraic Geometry

October 21-26, 2013

**Sala delle riunioni Presidenza
Ex Facoltà di Scienze MM.FF.NN.
Messina (Italy)**