

## WORKSHOP "PERFECT CODES AND RELATED TOPICS" SCHEDULE

**Friday, December the 4<sup>th</sup>**

Seminar room 3721, Dep. of Math., KTH, Lindstedtsvägen 25, plan 7

### **Section I**

1. 10.00-11.00 Faina I. Solov'eva, Sobolev Institute of Mathematics, Novosibirsk, Russia,

*"Perfect codes and related topics" (introduction lecture)*

11.00-11.30 **Coffee break**

2. 11.30-12.30 Patric R. J. Östergård, Helsinki University of Technology, Helsinki, Finland,

*"Classification of the perfect binary one-error-correcting codes of length 15"*

12.30-14.00 **Lunch**

### **Section II**

3. 14.00-14.40 Olli Pottonen, Finnish Defence Force Technical Research Centre, Riihimäki, Finland,

*"Properties of the perfect one-error-correcting codes of length 15"*

4. 14.40-15.20 Ivan Mogilnykh, Sobolev Institute of Mathematics, Novosibirsk, Russia,

*"On perfect 2-colorings of Johnson graphs"*

5. 15.20-16.00 Svetlana Puzynina, Sobolev Institute of Mathematics, Novosibirsk, Russia,

*"Equitable partitions as a generalization of perfect codes"*

16.00-16.30 **Coffee break**

6. 16.30-17.30 Denis S. Krotov, Sobolev Institute of Mathematics, Novosibirsk, Russia,

*"On the binary codes with parameters of doubly shortened 1-perfect codes"*

7. 17.30-18.10 Thomas Westerbäck, KTH, Stockholm, Sweden,

*"On the existence of extended perfect binary codes with trivial symmetry group"*

## Saturday, December the 5<sup>th</sup>

### Section III

1. 9.00-10.00 Thomas Ericson, Linköping, Sweden,  
*"Preparata codes over the  $GF(4)$ "*

2. 10.00-11.00 Kevin T. Phelps, Auburn University, Auburn, Alabama,  
 USA,  
*"An enumeration of Kerdock codes of length  $64$ "*

11.00-11.30 **Coffee break**

3. 11.30-12.30 Mercè Villanueva, Universitat Autònoma de Barcelona,  
 Barcelona, Spain,  
*" $Z_2Z_4$ -additive (extended) perfect codes: intersection problem"*

12.30-14.00 **Lunch**

### Section IV

4. 14.00-14.40 Martin Hessler, Linköping University, Linköping, Sweden,  
*"On linear equivalence and Phelps codes"*

5. 14.40-15.20 Danyo Danev, Linköping University, Linköping, Sweden,  
*"Families of quasi-perfect codes"*

6. 15.20-16.00 Fabio Pasticci, Università di Perugia, Perugia, Italy,  
*"Quasi-perfect linear codes with minimum distance  $4$ "*

16.00-16.30 **Coffee break**

7. 16.30-17.10 Faina I. Solov'eva, Sobolev Institute of Mathematics, Novosibirsk,  
 Russia,  
*"Partitions of  $F_q^n$  into perfect codes"*

8. 17.10-18.10 Victor A. Zinoviev, Institute of Problems of Information  
 Transmission, Moscow, Russia,  
*"On Preparata-like codes and 2-resolvable Steiner quadruple systems"*