

CIMPA - UNESCO - TÜBİTAK INTERNATIONAL SUMMER SCHOOL

Codes

over

Rings

Date: 18/08/2008-29/08/2008

**Place: Cahit Arf Auditorium -
Department of Mathematics -
Middle East Technical University -
Ankara / Turkey**

From the seminal work of Shannon (1948) till the end of the 80's the algebraic framework of the theory of error correcting codes was within the confines of vector spaces over **finite fields**. Beginning in the early nineties a paradigm shift occurred, and modules over **finite rings** entered the armory of coding theorists from engineering applications like low correlation sequences to finite geometry and number theory .

The aim of this school is to present a survey in fundamental areas, and to host a mini-conference highlighting some recent results.

Tentative lecturers are Marcus Greferath, Werner Heise, Tor Helleseth, Thomas Honold, Ivan N. Landgev, Philippe Langevin, San Ling, Sergio R. Lopez-Permouth, Gabriele Nebe, Aleksandr Nechaev, Ferruh Özbudak, Josep Rifa, Patrick Sole, Horacio Tapia-Recillas, Jacques Wolfmann, Jay Wood.

All interested in the topic are welcome to the summer school. For registration, please contact to the e-mail address below by July 18, 2008.

There will be accommodation opportunity on the METU Campus for those coming from outside of Ankara. There are limited funds for support, please contact to the e-mail address below by June 30, 2008.

Contact

E-mail: cimpa08@metu.edu.tr

Tel: +903122102987

Fax: +903122102985

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