

CIMPA-UNESCO-TÜBİTAK summer school: Codes over Rings Scientific Report

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1 Practical Organization

This school was held on the campus of METU, Ankara Turkey, in the Math Department building. The conference room bore the name of Cahit Arf, one of the most famous turkish mathematician, who left his name to an invariant of quadratic forms. The participants were about 40 half of them local and half international. The nations represented were Germany (2), India (3), Irak (7), Iran (8), Ivory Coast (1), Jordan (1), Philippines (1), Tunisia (2).

All participants welcomed turkish hospitality, the daily tea breaks with oriental pastries. The week end excursion in Cappadoce was very popular. A banquet was held the first week and a cocktail the second week. The organization of Prof Ozbudak and his students was very efficient.

2 Courses and Attendance

There was on average 6 hours (50mns talk+ 10mns questions and recess) of classes per day (2 in the morning and 4 in the afternoon) distributed as follows between 14 speakers

- Serdar Boztas 3 Sequences
- Marcus Greferath 2 Homogeneous weight
- Tor Helleseth 2 Z_4 codes and sequences
- Thomas Honold 5 Linear codes over finite chain rings
- Iwan Landjev 5 Geometries over rings

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- Philippe Langevin 3 Character sums
- San Ling 3 Quasi cyclic codes over rings
- Sergio Lopez 4 cyclic codes over rings
- Gabriele Nebe 4 self dual codes and invariant theory
- Aleksander Nechaev 8 codes over rings and modules
- Ferruh Ozbudak 1 Repeated root cyclic codes
- Patrick Solé 2 Codes over $GR(4,2)$, sequences
- Jacques Wolfmann 4 Negacyclic codes over Z_4
- Jay Wood 8 MacWilliams theorems over rings

3 Conclusion

A volume of proceedings to appear in World Scientific is scheduled for Fall 2009. The atmosphere of the school was excellent. Some of the speakers suggested making it into a regular conference. Amongst the upshots of this meeting a CIMPA school project (Tunisia) and a PhD project.

Répartition par nationalité des participants à l'école
"Codes sur des anneaux"
18-29 août 2008, Ankara (Turquie)

