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## 1 Algebraic Codes

The construction of spherical codes is now a classical problem related to important sp cases, as showed by Delsarte et al. (1977). In their invited paper, Ericson and Zinc propose a new construction, improving the method of generalized concatenation. Followin work of A. Dür, two papers deal with the structure of Reed-Solomon codes. Elia and Ta present new results on code automorphism groups which imply some properties on cov radius and coset weight distribution of RS-codes. Berger gives a new basis describing prim cyclic codes of length q - 1 over $F_q$ ; as an application he obtains directly the group of automorphisms of the RS-codes. Beth, Lazić and Senk present a very simple construction infinite sequence of self-dual codes ; properties of the first four codes imply a conjecture o distance distribution.

The following two papers are devoted to open problems on Reed-Muller codes. Carlet sl that the weight of an RM-code of any order is related to the weight distribution of an RM- of order 3 and greater length. Langevin studies the covering radius of the RM-code of or and length $2^m$, for small odd m ; he obtains a bound for m = 9.

In his paper, Rodier constructs codewords in the dual of binary BCH-codes of length $2^n$ for an infinite number of m ; he can disprove a conjectured improvement of the Ca Uchiyama bound. Augot, Charpin and Sendrier present an algebraic point of view in ord prove or disprove the existence of words of given weight in binary primitive cyclic cod short length.

## 2 Combinatorial Codes

The next three papers are devoted to less classical coding problems. Burger, Chabanne Girault deal with the construction of Gray codes with an additional constraint that transitions should be evenly distributed, to provide, e.g., uniform wearing of memo Mabogunje and Farell construct unequal error protection codes based on array codes and simulation results for their bit error rates. Cohen, Gargano and Vaccaro propose t-unidirecti error detecting codes with high rates, for both systematic and nonsystematic cases, toge with linear time encoding and decoding algorithms.

Two papers are devoted to graphs and finite fields. Montpetit presents some results in gr which extend combinatorial results in coding theory. Astié-Vidal and Dugat propo construction of homogeneous tournaments based on Galois fields.

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