

## CONTENTS

Preface	v
A. BARLOTTI, Address to Participants	1
G. TALLINI, Beniamino Segre	5
L.M. ABATANGELO, Complete arcs in $PG(2,q)$ , $q$ even	13
O. AMICI e B. CASCIARO, Intorno ad un teorema di Buekenhout sulle ovali pascaliane	17
F. BACHMANN, Orthogonality in reflection geometry	29
C. BARTOLONE, On some translation planes admitting a Frobenius group of collineations	37
L. BENETEAU, Hall triple systems and related topics	55
W. BENZ, On mappings preserving a single Lorentz-Minkowski- distance. I	61
C. BERNASCONI, Designs obtained from affine spaces	77
T. BETH and D. JUNGnickel, On the codes generated by certain divisible designs	87
A. BICHARA and F. MAZZOCCA, On a characterization of the Grassmann spaces associated with an affine space	95
A. BICHARA and G. TALLINI, On a characterization of Grassmann space representing the $h$ -dimensional subspaces in a projective space	113
R.H. BRUCK, Enriched cliques with six vertices	133

A.A. BRUEN and M.J. DE RESMINI, Blocking sets in affine planes	169
F. BUEKENHOUT, Some building geometries of spherical type as sets of points and lines	177
K.A. BUSH, "Cyclic" solutions for finite projective planes	181
A.M. COHEN, Points and lines in metasymplectic spaces	193
G. COHEN and P. FRANKL, On generalized perfect codes and Steiner systems	197
C.J. COLBOURN and M.J. COLBOURN, Greedy colouring of Steiner triple systems	201
H. CRAPO, Concurrence geometries	209
M. CRISMALE, $(q^2+q+1)$ -sets of type $(0,1,2,q+1)$ in translation planes of order $q^2$	225
F. DE CLERCK and J.A. THAS, The embedding of $(0,\alpha)$ -geometries in $PG(n,q)$ . Part I	229
M. DE FINIS and M.J. DE RESMINI, On cubic surfaces over a field of characteristic 3	241
A. DELANDTSHEER, Some characterizations of finite 3-dimensional projective spaces and affino-projective planes	279
J. DÉNES, On a problem of A. Kotzig	283
R.H.F. DENNISTON, A small 4-design	291
M. DEZA, Some new generalizations of sharply $t$ -transitive groups and sets	295
J. DOYEN and M. LANDUYT, Dissections of polygons	315
A. DRÁPAL and T. KEPKA, Group modifications of some partial groupoids	319
E.W. ELLERS, Bireflectionality	333

G. FAINA and C. KORCHMÁROS, A graphic characterization of hermitian curves	335
S. FANELLI, On the connectivity of maximal planar graphs with minimum degree 5	343
R. FUJI-HARA and S.A. VANSTONE, Affine geometries obtained from projective planes and skew resolutions on $AG(3,q)$	355
D. GHINELLI SMIT, Automorphisms and generalized incidence matrices of divisible designs	377
M. GIONFRIDDO, Some results on partial Steiner quadruple systems	401
M.J. GRANNELL and T.S. GRIGGS, Some recent results on cyclic Steiner quadruple systems - A survey	409
L. GUERRA and E. UGHI, On a conjecture of S. Ilkka	419
C. HERING, On homologies of fixed-point-free affine groups	427
R. HILL, On Pellegrino's 20-caps in $S_{4,3}$	433
J.W.P. HIRSCHFELD, Caps in elliptic quadrics	449
H. HOTJE, On Cohnfunctions	467
X. HUBAUT and R. METZ, A class of strongly regular graphs related to orthogonal groups	469
D. HUGHES, On the non-existence of a semi-symmetric 3-design with 78 points	473
T. IHRINGER, On certain linear congruence class geometries	481
N.L. JOHNSON, Translation planes of characteristic $p$ that admit $SL(2,p^r)$	493
W.M. KANTOR, Nondesarguesian planes, partial geometries, strongly regular graphs and codes arising from hyperbolic quadrics	511
H. KARZEL and M. MARCHI, The projectivity groups of ovals and of quadratic sets	519

A.D. KEEDWELL, On R-sequenceability and $R_h$ -sequenceability of groups	535
H.J. KROLL, On the characterization of finite Miquelin Möbius planes	549
C. LEFÈVRE-PERCSY, Copolar spaces fully embedded in projective spaces	553
J.A. LESTER, A physical characterization of conformal transformations of Minkowski spacetime	567
J.H. VAN LINT, The van der Waerden Conjecture	575
A. MACHI and P. PIZZI, Some extremal results about the genus of a pair of permutations	581
M. MARCHI and S. PIANTA, Partial parallelism spaces and slit spaces	591
M. MARCHI and E. ZIZIOLI, On a class of kinematic spaces	601
H.F. MATTSON Jr. and J.R. SCHATZ, A brief survey of covering radius	617
F. MAZZOCCA and D. OLANDA, A graphic characterization of the lines of an affine space	625
W. MIELANTS and H. LEEMANS, $Z_2$ -cohomology of projective spaces of odd order	635
A. NEUMAIER and K.E. WOLFF, Inequalities for point stable designs	653
S.E. PAYNE, On the structure of translation generalized quadrangles	661
G. PELLEGRINO, Sur les k-arcs complets des planes de Galois d'ordre impair	667
N. PERCSY, The bundles axiom and egglike subsets of projective spaces	695
A. ROSA and S.A. VANSTONE, Kirkman cubes	699
L.A. ROSATI, Sulle ovali dei piani desarguesiani finiti d'ordine pari	713
J. SAXL, Groups on points and sets	721

E. STRICKLAND, An application of combinatorics of Young tableaux to geometric problems	725
M. TALLINI SCAFATI, Two characters $k$ -sets with respect to a singular space in $PG(r,q)$	731
J.A. THAS and S.E. PAYNE, Moufang conditions for finite generalized quadrangles	745
M.J. THOMSEN, Nilinearly generated near-algebras	753
K. VEDDER, Affine planes and latin squares	761
A.G.S. VENTRE, Composition of rotations of graphs	769
R. VINCENTI, A survey on varieties of $PG(4,q)$ and Baer subplanes of translation planes	775
A.J. WEISS, On trivalent graphs embedded in twisted honeycombs	781
M.L.H. WILLEMS, Restricted $M_i$ -spaces, restricted $L_i$ -spaces, optimal codes and $n$ -arcs	789
G. ZAPPA, Sur des classes de groupes finis résolubles	803
H. ZEITLER, Finite non-euclidean planes	805
Other talks	819
List of participants	821