Curriculum Vitae di Angelo Morro

Studi ed esperienza professionale

1966-1970: Studente di Fisica presso l'Università di Genova
23 Novembre 1970: Laurea in Fisica con lode
1971-1972: Borsista presso l'Istituto di Fisica, Genova
15 Novembre 1972: Diploma con lode della Scuola di Perfezionamento in Fisica
1973-1980: Assistente di Meccanica Razionale (Facoltà di Ingegneria, Genova)
Settembre 1976: Borsa CNR per ricerca presso il Laboratorio di Meccanica Teorica, CNRS, Paris VI
Estate-Autunno 1978: Borsa CNR per ricerca presso l'Istituto di Matematica di Oxford
1980-1988: Professore di Meccanica Razionale (Ingegneria, Genova)
1986-2000: Presidente del Consiglio di Corso di Studio in Ingegneria Elettronica, Genova
1987-1993: Membro dell'Advisory Board della rivista Meccanica
Estate 1988 "Professeur invite' " presso il Laboratorio di Modellizzazione Meccanica, Università P. & M. Curie, Paris VI.
1988-2016: Professore ordinario diFisica Matematica (Facoltà di Ingegneria, Genova).
Luglio 1990 Professore Visitatore, Università Tecnica di Berlino
1994-2001 e 2006-2009: Segretario dell'AIMETA
2002-2205: Presidente dell'AIMETA
2007-213: Presidente della Commissione Paritetica di Ingegneria
2013-2015: Presidente della Commissione Paritetica della Scuola Politecnica
2014: Presidente della Commissione Paritetica dell'Università di Genova
2015: Presidente del Comitato Scientifico, 22-esimo Congresso AIMETA
2016: Membro del Comitato Scientifico Internazionale, Thermal Stresses 2016
2017-2018: Presidente della Commissione ASN del settore 01/A4
dal 2021: Professore Emerito di Fisica Matematica

Insegnamento

1973-1980: Meccanica Razionale; Fisica Matematica
1981-1988: Meccanica Razionale; Fisica Matematica; Termodinamica del Non-Equilibrio
1988-1998: Fisica Matematica; Matematica Applicata; Metodi Matematici e Statistici
1998-2007: Matematica; Fisica Matematica; Metodi Matematici e Statistici
2007-2013: Matematica; Statistica
2013-2016: Analisi Matematica, Fisica Matematica, Statistica
2016-2021: Analisi Matematica; Fisica Matematica
2021-2022: Fisica Matematica
dal 2000: Continuum Mechanics (per studenti del Dottorato in Ingegneria Civile)

Interessi di ricerca

La ricerca riguarda essenzialmente la modellizzazione matematica in meccanica ed elettromagnetismo dei mezzi continui.
Particulari argomenti sono:
Transizioni di fase
Termodinamica dei mezzi continui
Materiali con memoria
Miscele
Isteresi
Propagazione ondosa

Libri in inglese

M. Fabrizio & A. Morro
Mathematical Problems in Linear Viscoelasticity
SIAM, Philadelphia, 1992

G. Caviglia & A. Morro
Inhomogeneous Waves in Solids and Fluids
World Scientific, Singapore, 1992

M. Fabrizio & A. Morro
Electromagnetism of Continuous Media
Oxford University Press, Oxford 2003

A. Morro & C. Giorgi
Mathematical Modelling of Continuum Physics
Birkhäuser-Springer, Cham 2023

Libri in italiano

F. Bampi, M. Benati, A. Morro
Problemi di Meccanica Razionale
ECIG, Genova, 1988

A. Morro
Elementi di Fisica Matematica
ECIG, Genova, 1997

C. Giorgi, A. Morro
Introduzione alla Matematica
Maggioli Editore, 2012

<p style="text-align:center; color:red;">Pubblicazioni</p>

1   M. Carrassi & A. Morro
A modified Navier-Stokes equation and its consequences on sound dispersion
Nuovo Cimento B 9, 321-343 (1972)

2   M. Carrassi & A. Morro
Some remarks about dispersion and absorption of sound in monoatomic rarefied gases
Nuovo Cimento B 13, 281-299 (1973)

3   L. Basano & A. Morro
Gravitational radiation from charged black holes
Lett. Nuovo Cimento 5, 266-268 (1973)

4   L. Basano & A. Morro
Black-hole collisions as sources of gravitational radiation
Nuovo Cimento B 17, 64-70 (1973)

5   L. Basano & A. Morro
Collapsed Schwarzschild fields and thermodynamics
Lett. Nuovo Cimento 6, 193-196 (1973)

6   M. Carrassi & A. Morro
Continuum thermodynamics and spatial interaction in fluids
Atti Accad. Naz. Lincei Rend. 55, 437-444 (1973)

7   M. Carrassi & A. Morro
The thermodynamic theory of the Maxwellian fluid
Boll. Un. Mat. Ital. 9, 297-335 (1974)

8   R. Borghesani & A. Morro
Time-reversal invariance and thermodynamics of electromagnetic fields in materials with memory
Ann. Mat. Pura Appl. 99, 65-80 (1974)

9   R. Borghesani & A. Morro
Addendum. Time-reversal invariance and thermodynamics of electromagnetic fields in materials with memory
Ann. Mat. Pura Appl. 101, 385-386 (1974)

10   R. Borghesani & A. Morro
Thermodynamics and isotropy in thermal and electric conduction
Meccanica 9, 63-69 (1974)

11   R. Borghesani & A. Morro
Thermodynamic restrictions on thermoelectric, thermomagnetic and galvanomagnetic coefficients

Meccanica 9, 157-161 (1974)

12   A. Morro
Thermodynamics and spatial interaction in viscoelastic materials
Boll. Un. Mat. Ital. 10, 355-374 (1974)

13   A. Morro
Thermodynamics of apolar viscoelastic dielectrics
Meccanica 10, 120-126 (1975)

14   A. Morro
Linear effects in apolar viscoelastic dielectrics
Istit. Lombardo Accad. Sci. Lett. Rend. A 110, 371-386 (1976)

15   A. Morro
Spatial interaction in magneto-micropolar continua
Meccanica 12, 194-207 (1977)

16   R. Borghesani & A. Morro
Relaxation functions and time-reversal invariance in thermal and electric conduction
Ann. Mat. Pura Appl. 114, 271-288 (1977)

17   A. Morro
Temperature waves in rigid materials with memory
Meccanica 12, 73-77 (1977)

18   A. Morro
Thermoviscoelasticity and invariance of the entropy production under time-reversal
Ann. Mat. Pura Appl. 119, 115-137 (1979)

19   A. Morro
Interaction of shock waves with acoustic waves
Atti Accad. Naz. Lincei Rend. 64, 177-185 (1978)

20   A. Morro
Interaction of acoustic waves with shock waves in elastic solids
Z. Angew. Math. Phys. 29, 822-827 (1978)

21   E. Massa & A. Morro
A dynamical approach to relativistic continuum thermodynamics
Ann. Inst. Henri Poincaré 29, 423-454 (1978)

22   F. Bampi & A. Morro
Gravity waves in water of variable depth
Nuovo Cimento C 1, 377-388 (1978)

23   A. Morro

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Acta Mech. 35, 197-213 (1980)

24   A. Morro
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Acta Mech. 38, 241-248 (1981)

25   A. Morro
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Atti Accad. Naz. Lincei Rend. 66, 541-547 (1979)

26   A. Morro
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Int. J. Engng Sci. 18, 913-919 (1980)

27   F. Bampi & A. Morro
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28   F. Bampi & A. Morro
Korteweg-de Vries equation and nonlinear waves
Lett. Nuovo Cimento 26, 61-63 (1979)
29   A. Morro
Wave propagation in thermo-viscous materials with hidden variables
Arch. Mech. 32, 145-161 (1980)

30   A. Morro
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Arch. Mech. 32, 193-199 (1980)

31   A. Morro
Acceleration waves in thermo-viscous fluids
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32   A. Morro
Shock and wave relations in MFD with heat conduction and viscosity
Meccanica 14, 112-114 (1980)

33   A. Morro
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34   A. Morro
Shocks and waves in thermo-viscous MFD with hidden variables
Acta Phys. Hung. 48, 369-382 (1980)

35   F. Bampi & A. Morro

Hidden variables and waves in relativistic thermo-viscous fluid-dynamics
Acta Phys. Polon. B 10, 1081-1084 (1979)

36   F. Bampi & A. Morro
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J. Math. Phys. 21, 1201-1204 (1980)

37   F. Bampi & A. Morro
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38   A. Morro
Quasi-linear systems and waves in thermo-viscous fuid-dynamics
Atti Accad. Naz. Lincei Rend. 67, 340-346 (1980)

39   F. Bampi & A. Morro
Objectivity principle revisited
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40   F. Bampi & A. Morro
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41   F. Bampi & A. Morro
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42   F. Bampi & A. Morro
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J. Non-Equilib. Thermodyn. 6, 1-14 (1981)
43   F. Bampi & A. Morro
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44   F. Bampi & A. Morro
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45   F. Bampi, D. Jou & A. Morro
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46   A. Morro
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47   F. Bampi & A. Morro

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48   F. Bampi & A. Morro
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49   D. Jou, F. Bampi & A. Morro
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50   A. Morro
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51   F. Bampi & A. Morro
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52   L. De Floriani, F. Bampi & A. Morro
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53   F. Bampi & A. Morro
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54   F. Bampi & A. Morro
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55   F. Bampi & A. Morro
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56   A. Morro & B. Straughan
Highly unstable solutions to completely nonlinear diffusion problems
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57   F. Bampi & A. Morro
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58   F. Bampi & A. Morro
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59   F. Franchi & A. Morro
Continuous dependence and uniqueness for heat-conducting viscous fluids in bounded domains
Rend. Circ. Mat. Palermo 33, 145-158 (1984)

60   A. Morro
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61   A. Morro
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62   F. Bampi & A. Morro
A lagrangian density for the dynamics of elastic dielectrics
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63   F. Bampi & A. Morro
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64   F. Bampi & A. Morro
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65   A. Morro
A variational principle for elastic dielectrics
The Mechanical Behaviour of Electromagnetic Solid Continua (G. A. Maugin ed.),
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66   F. Bampi & A. Morro
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67   F. Bampi & A. Morro
On functionals made stationary by given functions
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68   B. Straughan, F. Bampi & A. Morro
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69   F. Bampi & A. Morro
Nonequilibrium thermodynamics: a hidden variable approach
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& G. Lebon eds), Lecture Notes in Physics 199, Springer, Berlin, 1984; pp. 211-232

70   A. Morro
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Lecture Notes in Physics 228, Springer, Berlin, 1985; pp. 217-231

71   F. Franchi & A. Morro
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72   F. Bampi & A. Morro
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73   F. Bampi & A. Morro
A variational approach to deformable electromagnetic solids
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74   D. Jou, F. Bampi & A. Morro
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75   A. Morro
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Clausius-Duhem inequality*
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76   M. Fabrizio & A. Morro
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77   A. Morro, R. Drouot & G. A. Maugin
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J. Non-Equilib. Thermodyn. 10, 131-144 (1985)

78   G. Caviglia & A. Morro
Drag on a sphere in a fluid
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79   A. Morro & M. Romeo
On the law of mass action in fluid mixtures with several temperatures
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80   A. Morro & A. I. Murdoch
Stress, body force, and momentum balance in mixture theory
Meccanica 21, 184-190 (1986)

81   A. I. Murdoch & A. Morro

On the continuum theory of mixtures: motivation from discrete considerations
Int. J. Engng Sci. 25, 9-25 (1987)

82   A. Morro & M. Fabrizio
On uniqueness in linear viscoelasticity: a family of counterexamples
Quart. Appl. Math. 45, 321-325 (1987)

83   A. Morro
Symmetry and monotonicity of the relaxation function in linear viscoelasticity
Acta Mech. 66, 263-268 (1987)

84   A. Morro & M. Parodi
Extensive force in polyelectrolyte solutions
J. Molecular Liquids 32, 279-289 (1986)

85   A. Morro, R. Drouot & G. A. Maugin
A continuum model for polyelectrolytes in solution
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Balkema, Rotterdam (1987); pp. 139-144

86   P. J. Chen & A. Morro
On induced discontinuities in a class of linear materials with internal state parameters
Meccanica 22, 14-18 (1987)

87   A. Morro & T. Ruggeri
Second sound and internal energy in solids
Int. J. Non-Linear Mechanics 22, 27-36 (1987)

88   R. Drouot, G. A. Maugin & A. Morro
Anisotropic equilibrium conformations in solutions of polymers and polyelectrolytes
J. Non-Newtonian Fluid Mechanics 23, 295-304 (1987)

89   G. Caviglia & A. Morro
Noether-type conservation laws for perfect fluid motions
J. Math. Phys. 28, 1056-1060 (1987)

90   M. Fabrizio & A. Morro
Viscoelastic relaxation functions compatible with thermodynamics
J. Elasticity 19, 63-75 (1988)

91   A. Morro & M. Romeo
The law of mass action for fluid mixtures with several temperatures and velocities
J. Non-Equilib. Thermodyn. 13, 339-353 (1988)

92   A. Chiabrera, A. Morro & M. Parodi
High-field effects in liquid dielectrics
Ferroelectrics 76, 335-342 (1987)

93   B. Bianco, A. Chiabrera, A. Morro & M. Parodi
Effects of magnetic exposure on ions in electric fields
Ferroelectrics 86, 159-168 (1987)

94   A. Morro & M. Parodi
A variational approach to non-linear dielectrics; application to polyelectrolytes
J. Electrostatics 20, 219-232 (1987)

95   A. Morro & M. Romeo
Thermodynamic derivation of Saha's equation for a multi-temperature plasma
J. Plasma Phys. 39, 41-51 (1987)

96   G. Caviglia & A. Morro
Conservation laws in anisotropic elastostatics
Int. J. Engng Sci. 26, 393-400 (1988)

97   A. Morro & T. Ruggeri
Nonequilibrium properties of solids through second sound measurements
J. Phys. C 21, 1743-1752 (1988)

98   G. Caviglia & A. Morro
On conservation laws for incompressible fluids
Int. J. Math. & Math. Sci. 12, 377-384 (1989)

99   A. Morro
Variational methods for nonlinear dielectrics
Atti Sem. Mat. Fis. Univ. Modena 36, 339-353 (1988)

100 G. Caviglia & A. Morro
A general approach to conservation laws in viscoelasticity
Acta Mech. 75, 255-267 (1988)

101 A. Morro & I. Müller
A study of swelling and collapse in polyelectrolyte gels
Rheologica Acta 27, 44-51 (1988)

102 G. Caviglia & A.Morro
Initial-data dependent conservation laws for the telegraph equation
Boll. Un. Mat. Ital. B 2, 859-875 (1988)

103 M. Benati & A. Morro
Dynamics of a chain of flexible links
ASME J. Dynamic Systems, Measurement and Control 110, 410-415 (1988)

104 G. Caviglia & A. Morro
Generalized symmetries and conservation laws: a Noether-type approach

Riv. Mat. Pura Appl. (1988)

105 G. Caviglia, A. Morro & E. Pagani
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106 A. Morro & M. Parodi
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107 M. Parodi, M. Tortonese & A. Morro
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108 G. A. Maugin & A. Morro
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109 A. Morro & M. Vianello
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110 G. Caviglia & A. Morro
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111 M. Fabrizio, C. Giorgi & A. Morro
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112 M. Benati & A. Morro
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Meccanica 23, 243-249 (1989)

113 M. Fabrizio & A. Morro
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114 A. Chiabrera, A. Morro & M. Parodi
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115 G. A. Maugin & A. Morro
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116 G. Caviglia & A. Morro

On the generation of conservation laws in viscoelasticity
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117 M. Parodi, M. Tortonese & A. Morro
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118 G. Caviglia, A.Morro & E. Pagani
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119 G. Caviglia, A. Morro & E. Pagani
Reflection and refraction at elastic-viscoelastic interfaces
Nuovo Cimento C 12, 399-413 (1989)
120 A. Morro & M. Vianello
Minimal and maximal free energy for materials with memory
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121 G. Caviglia, A. Morro & E. Pagani
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122 G. Caviglia & A. Morro
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125 A. Morro & B. Straughan
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126 G. Caviglia & A. Morro
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127 B. Straughan & A. Morro
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128 G. Caviglia & A. Morro

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129 A. Morro & B. Straughan
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130 A. Morro, G. A. Maugin & R. Drouot
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131 G. Caviglia & A. Morro
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133 G. Caviglia & A. Morro
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134 A. Morro
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135 C. Giorgi & A. Morro
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136 G. Caviglia & A. Morro
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137 M. Fabrizio & A. Morro
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138 A. Morro & B. Straughan
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139 G. Caviglia, A. Morro & B. Straughan
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140 A. De Gloria & A. Morro
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141 A. Morro & B. Straughan
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142 G. Caviglia & A. Morro
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144 A. Morro
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148 G. Caviglia & A. Morro
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