

[67] MODE-DEPENDENT MECHANICAL LOSSES IN DISC RESONATORS

Cagnoli G., Lorenzini M., Cesarini E., Piergiovanni F., Granata M., Heinert D., Martelli F., Nawrodt R., Amato A., Cassar Q., Dickmann J., Kroker S., Lumaca D., Malhaire C., Rojas Hurtado C.B.

Phys. Lett. A 382 2165-2173

[66] CORRELATED EVOLUTION OF STRUCTURE AND MECHANICAL LOSS OF A SPUTTERED SILICA FILM

Granata M., Coillet E., Martinez V., Dolique V., Amato A., Canepa M., Margueritat J., Martinet C., Mermet A., Michel C., Pinard L., Sassolas B. and **Cagnoli G.**

(2018) *Phys. Rev. Mat.* 2 053607

[65] HIGH-REFLECTION COATINGS FOR GRAVITATIONAL-WAVE DETECTORS: STATE OF THE ART AND FUTURE DEVELOPMENTS

Amato A., **Cagnoli G.**, Canepa M., Coillet E., Degallaix J., Dolique V., Forest D., Granata M., Martinez V., Michel C., Pinard L., Sassolas B., Teillon J.

(2018) *J. Phys.: Conf. Ser.* 957 012006

[64] A NEW METHOD OF PROBING MECHANICAL LOSSES OF COATINGS AT CRYOGENIC TEMPERATURES

Galliou S., Deléglise S., Goryachev M., Neuhaus L., **Cagnoli G.**, Zerkani S., Dolique V., Bon J., Vacheret X., Abbé P., Pinard L., Michel C., Karassouloff T., Briant T., Cohadon P.-F., Heidmann A., Tobar M. E., and Bourquin R.

(2016) *Rev. Sci. Instrum.* 87 (21) 231902

[63] MECHANICAL LOSS IN STATE-OF-THE-ART AMORPHOUS OPTICAL COATINGS

Granata M., Saracco E., Morgado N., Cajgfinger A., **Cagnoli G.**, Degallaix J., Dolique V., Forest D., Franc J., Michel C., Pinard L. and Flaminio R.

(2016) *Phys Rev D* 93 (1) 012007

[62] 2D PHOTONIC-CRYSTAL OPTOMECHANICAL NANORESONATOR

Makles K., Antoni T., Kuhn A. G., Deleglise S., Briant T., Cohadon P. -F., Braive R., Beaudoin G., Pinard L., Michel C., Dolique V., Flaminio R., **Cagnoli G.**, Robert-Philip I. and Heidmann A.

(2015) *OPTICS LETTERS* 40 (2) 174-177

[61] REALISTIC LOSS ESTIMATION DUE TO THE MIRROR SURFACES IN A 10 METERS-LONG HIGH FINESSE FABRY-PEROT FILTER-CAVITY

Straniero N., Degallaix J., Flaminio R., Pinard L. and **Cagnoli G.**

(2015) *OPTICS EXPRESS* 23 (16) 21455-21476

[60] INTERNAL FRICTION AND YOUNG'S MODULUS MEASUREMENTS ON SiO₂ AND Ta₂O₅ FILMS DONE WITH AN ULTRA-HIGH Q SILICON-WAFER SUSPENSION

M. Granata, L. Balzarini, J. Degallaix, V. Dolique, R. Flaminio, D. Forest, D. Hofman, C. Michel, R. Pedurand, L. Pinard, B. Sassolas, N. Straniero, J. Teillon and **Cagnoli G.**

(2015) *Archives of Metallurgy and Materials* 60 (1) 365-370

[59] MEASUREMENT OF THE OPTICAL ABSORPTION OF BULK SILICON AT CRYOGENIC TEMPERATURE AND THE IMPLICATION FOR THE EINSTEIN TELESCOPE

Degallaix J., Komma J., Forest D., Hofmann G., Granata M., Heinert D., Schwarz C., Nawrodt R., Pinard L., Michel C., Flaminio R. and **Cagnoli G.**

(2014) *Class. Quantum Grav.* 31 (23) 185010

[58] MEASUREMENTS OF MECHANICAL THERMAL NOISE AND ENERGY DISSIPATION IN OPTICAL DIELECTRIC COATINGS

Li T., Aguilar Sandoval F.A., Geitner M., **Cagnoli G.**, Degallaix J., Dolique V., Flaminio R., Forest D., Granata M., Michel C., Morgado N., Pinard L. and Bellon L.
(2014) *Phys. Rev. D* 89 (9) 092004

[57] ENHANCED CHARACTERISTICS OF FUSED SILICA FIBRES USING LASER POLISHING

Heptonstall A., Barton M., Bell A., Bohn A., **Cagnoli G.**, Cumming A., Grant A., Gustafson E., Hammond G., Hough J., Jones R., Kumar R., Lee K., Martin I., Robertson N., Rowan S., Strain K. and Tokmakov K.
(2014) *Class. Quantum Grav.* 31 (10) 105006

[56] CRYOGENIC MEASUREMENTS OF MECHANICAL LOSS OF HIGH-REFLECTIVITY COATING AND ESTIMATION OF THERMAL NOISE

Granata M., Craig K., **Cagnoli G.**, Carcy C., Cunningham W., Degallaix J., Flaminio R., Forest D., Hart M., Hennig J.-S., Hough J., MacLaren I., Martin I.W., Michel C., Morgado N., Otmani S., Pinard L. and Rowan S.
(2013) *Optics Letters* 38 (24) 5268-5271

[55] THERMAL NOISE MEASUREMENTS ON MICRO-CANTILEVERS COATED WITH DIELECTRIC MATERIALS

Cagnoli G., Dolique V., Degallaix J., Flaminio R., Forest D., Granata M., Michel C., Morgado N., Pinard L., Aguilar F., L T.J., Geitner M. and Bellon L.
(2013) 22nd International Conference on Noise and Fluctuations (ICNF) Montpellier, FRANCE, *IEEE* DOI: 10.1109/ICNF.2013.6578883

[54] BULK OPTICAL ABSORPTION OF HIGH RESISTIVITY SILICON AT 1550 NM

Degallaix J., Flaminio R., Forest D., Granata M., Michel C., Pinard L., Bertrand T. and **Cagnoli G.**
(2013) *Optics Letters* 38 (12) 2047

[53] A TOOL FOR MEASURING THE BENDING LENGTH IN THIN WIRES

Lorenzini M., **Cagnoli G.**, Cesarini E., Losurdo G., Martelli F., Piergiovanni F., Vetrano F., Vicere A.
(2013) *Rev. Sci. Instrum.* 84 (3) 033904

[52] UPDATE ON QUADRUPLE SUSPENSION DESIGN FOR ADVANCED LIGO

Aston S.M., Barton M.A., Bell A.S., Beveridge N., Bland B., Brummitt A.J., **Cagnoli G.**, Cantley C.A., Carbone L., Cumming A.V., Cunningham L., Cutler R.M., Greenhalgh R.J.S., Hammond G.D., Haughian K., Hayler T.M., Heptonstall A., Heefner J., Hoyland D., Hough J., Jones R., Kissel J.S., Kumar R., Lockerbie N.A., Lodhia D., Martin I.W., Murray P.G., O'Dell J., Plissi M.V., Reid S., Romie J., Robertson N.A., Rowan S., Shapiro B., Speake C.C., Strain K.A., Tokmakov K.V., Torrie C.I., van Veggel A.A., Vecchio A., Wilmut I.
(2012) *Class. Quantum Grav.* 29 (23) 235004

[51] DESIGN AND DEVELOPMENT OF THE ADVANCED LIGO MONOLITHIC FUSED SILICA SUSPENSION

Cumming A. V., Bell A. S., Barsotti L., Barton M. A., **Cagnoli G.**, Cook D., Cunningham L., Evans M., Hammond G. D., Harry G. M., Heptonstall A., Hough J., Jones R., Kumar R., Mittleman R., Robertson N. A., Rowan S., Shapiro B., Strain K. A., Tokmakov K., Torrie C., van Veggel A. A.
(2012) *Class. Quantum Grav.* 29 (3) 035003

[50] APPARATUS FOR DIMENSIONAL CHARACTERIZATION OF FUSED SILICA FIBERS FOR THE SUS-

PENSIONS OF ADVANCED GRAVITATIONAL WAVE DETECTORS

Cumming A., Jones R., Barton M., **Cagnoli G.**, Cantley C.A., Crooks D.R.M., Hammond G.D., Heptonstall A., Hough J., Rowan S., Strain K.A.

(2011) *Rev. Sci. Instrum.* 82 (4) 044502

[49] INVITED ARTICLE: CO₂ LASER PRODUCTION OF FUSED SILICA FIBERS FOR USE IN INTERFEROMETRIC GRAVITATIONAL WAVE DETECTOR MIRROR SUSPENSIONS

Heptonstall A., Barton M.A., Bell A., **Cagnoli G.**, Cantley C.A., Crooks D.R.M., Cumming A., Grant A., Hammond G.D., Harry G.M., Hough J., Jones R., Kelley D., Kumar R., Martin I.W., Robertson N.A., Rowan S., Strain K.A., Tokmakov K., van Veggel M.

(2011) *Rev. Sci. Instrum.* 82 (1) 011301

[48] SILICA AS A KEY MATERIAL FOR ADVANCED GRAVITATIONAL WAVE DETECTORS

Cesarini E., Lorenzini M., **Cagnoli G.**, Martelli F., Piergiorgio F. and Vetrano F.

(2011) *Journal of Non-Chrystalline Solids* 357 (8-9) 2005-9

[47] INVESTIGATION OF MECHANICAL DISSIPATION IN CO₂ LASER-DRAWN FUSED SILICA FIBRES AND WELDS

Heptonstall A., Barton M., Cantley C., Cumming A., **Cagnoli G.**, Hough J., Jones R., Kumar R., Martin I., Rowan S., Torrie C., Zech S.

(2010) *Class. Quantum Grav.* 27 (3) 035013

[46] THE MONOLITHIC SUSPENSION FOR THE INTERFEROMETER VIRGO

Lorenzini M. on behalf of the Virgo Collaboration

(2010) *Class. Quantum Grav.* 27 (3) 084021

[45] MECHANICAL CHARACTERIZATION OF UNCOATED AND Ta₂O₅-SINGLE-LAYER-COATED SiO₂ SUBSTRATES: RESULTS FROM GENs SUSPENSION, AND THE COACH PROJECT

Cesarini E., Prato M., Lorenzini M., **Cagnoli G.**, Campagna E., Canepa M., Chincarini A., Gemme G., Losurdo G., Martelli F., Piergiorgio F. and Vetrano F.

(2010) *Class. Quantum Grav.* 27 (8) 084031

[44] MULTITECHNIQUE INVESTIGATION OF Ta₂O₅ FILMS ON SiO₂ SUBSTRATES: COMPARISON OF OPTICAL, CHEMICAL AND MORPHOLOGICAL PROPERTIES

Prato M., Cesarini E., Lorenzini M., Chincarini A., **Cagnoli G.**, Canepa M., Vetrano F. and Gemme G.

(2010) *J PHYS CONF SER* 228 012020

[43] THE DYNAMICS OF MONOLITHIC SUSPENSIONS FOR ADVANCED DETECTORS: A 3-SEGMENT MODEL

Piergiorgio F., **Cagnoli G.**, Campagna E., Cesarini E., Lorenzini M., Losurdo G., Martelli F., Vicerè A. and Vetrano F.

(2010) *J PHYS CONF SER* 228 012017

[42] SILICATE BONDING PROPERTIES: INVESTIGATION THROUGH THERMAL CONDUCTIVITY MEASUREMENTS

Lorenzini M., Cesarini E., **Cagnoli G.**, Campagna E., Haughian K., Hough J., Losurdo G., Martelli F., Martin I., Piergiorgio F., Reid S., Rowan S., van Veggel A.A. and Vetrano F.

(2010) *J PHYS CONF SER* 228 012019

[41] A "GENTLE" NODAL SUSPENSION FOR MEASUREMENTS OF THE ACOUSTIC ATTENUATION IN MATERIALS

Cesarini E., Lorenzini M., Campagna E., Martelli F., Piergiorgio F., Vetrano F., Losurdo G., **Cagnoli G.**

(2009) *Rev Sci Instrum* 80 (5) 053904

[40] INFLUENCE OF TEMPERATURE AND HYDROXIDE CONCENTRATION ON SETTLING TIME OF HYDROXY-CATALYSIS BONDS

Reid S., **Cagnoli G.**, Elliffe E., Faller J., Hough J., Martin I., Rowan S.
(2007) *Phys Lett A* 363 (5-6) 341-5

[39] TITANIA-DOPED TANTALA/SILICA COATINGS FOR GRAVITATIONAL-WAVE DETECTION

Harry G.M., Abernathy M.R., Becerra-Toledo A.E., Armandula H., Black E., Dooley K., Eichenfield M., Nwabugwu C., Villar A., Crooks D.R.M.), **Cagnoli G.**, Hough J., How C.R., MacLaren I., Murray P., Reid S., Rowan S., Sneddon P.H., Fejer M.M., Route R., Penn S.D., Ganau P., Mackowski J.M., Michel C., Pinard L., Remillieux A.

(2007) *Class. Quantum Grav.* 24 (2) 405-15

[38] EXPERIMENTAL MEASUREMENTS OF MECHANICAL DISSIPATION ASSOCIATED WITH DIELECTRIC COATINGS FORMED USING SiO_2 , Ta_2O_5 AND Al_2O_3

Crooks D.R.M., **Cagnoli G.**, Fejer M.M., Harry G., Hough J., Khuri-Yakub B.T., Penn S., Route R., Rowan S., Sneddon P.H., Wygant I.O., Yaralioglu G.G.

(2006) *Class. Quantum Grav.* 23 (15) 4953-65

[37] CHARACTERISATION OF MECHANICAL LOSS IN SYNTHETIC FUSED SILICA RIBBONS

Heptonstall A., **Cagnoli G.**, Hough J., Rowan S.

(2006) *Phys Lett A* 354 (5-6) 353-9

- [36] FIRST CHARACTERIZATION OF SILICON CRYSTALLINE FIBERS PRODUCED WITH THE μ -PULLING TECHNIQUE FOR FUTURE GRAVITATIONAL WAVE DETECTORS
 Alshourbagy M., Amico P., Bosi L., **Cagnoli G.**, Campagna E., Cottone F., Dari A., Gammaitoni L., Lorenzini M., Losurdo G., Marchesoni F., Martelli F., Piergiovanni F., Punturo M., Toncelli A., Tonelli M., Travasso F., Vetrano F., Vocca H.
 (2006) *Rev. Sci. Instrum.* 77 044502
- [35] MEASUREMENT OF THE THERMOELASTIC PROPERTIES OF CRYSTALLINE SI FIBRES
 Alshourbagy M., Amico P., Bosi L., **Cagnoli G.**, Campagna E., Cottone F., Dari A., Gammaitoni L., Lorenzini M., Losurdo G., Marchesoni F., Martelli F., Piergiovanni F., Punturo M., Toncelli A., Tonelli M., Travasso F., Vetrano F., Vocca H.
 (2006) *Class. Quantum Grav.* 23 (8) S277-85
- [34] MECHANICAL DISSIPATION IN SILICON FLEXURES
 Reid S., **Cagnoli G.**, Crooks D.R.M., Hough J., Murray P., Rowan S., Fejer M.M., Route R., Zappe S.
 (2006) *Phys Lett A* 351 (4-5) 205-11
- [33] THERMAL NOISE FROM OPTICAL COATINGS IN GRAVITATIONAL WAVE DETECTORS
 Harry G.M., Armandula H., Black E., Crooks D.R.M., **Cagnoli G.**, Hough J., Murray P., Reid S., Rowan S., Sneddon P., Fejer M.M., Route R., Penn S.D.
 (2006) *Applied Optics* 45 (7) 1569-74
- [32] R&D ON THERMAL NOISE IN EUROPE: THE STREGA PROJECT
Cagnoli G.
 (2006) *J PHYS CONF SER* 32: 294-300
- [31] SILICA SUSPENSIONS AND COATING DEVELOPMENTS FOR ADVANCED LIGO
Cagnoli G., Armandula H., Cantley C.A., Crooks D.R.M., Cumming A., Elliffe E., Fejer M.M., Gretarsson A.M., Harry G.M., Heptonstall A., Hough J., Jones R., Mackowski J.-M., Martin I., Murray P., Penn S.D., Perreur-Lloyd M., Reid S., Route R., Rowan S., Robertson N.A., Sneddon P.H. and Strain K.A.
 (2006) *J PHYS CONF SER* 32: 386-92
- [30] HYDROXIDE-CATALYSIS BONDING FOR STABLE OPTICAL SYSTEMS FOR SPACE
 Elliffe E.J., Bogenstahl J., Deshpande A., Hough J., Killow C., Reid S., Robertson D., Rowan S., Ward H., **Cagnoli G.**
 (2005) *Class. Quantum Grav.* 22 (10) S257-67
- [29] OPTICAL COATINGS FOR GRAVITATIONAL-WAVE DETECTION
 Harry G.M., Armandula H., Black E., Crooks D.R.M., **Cagnoli G.**, Fejer M.M., Hough J., Penn S.D., Rowan S., Route R., Sneddon P.
 (2004) *Advances in Thin Film Coating for Optical Applications*, J.D.T. Kruschwitz and J.B. Oliver Eds.,
 Proceedings of SPIE Vol. 5527 (Bellingham, WA) 33-40
- [28] SEISMIC ISOLATION AND SUSPENSION SYSTEMS FOR ADVANCED LIGO
 Robertson N. A., Abbott B., Abbott R., Adhikari R., Allen G., Armandula H., Aston S., Baglino A., Barton M., Bland B., Bork R., Bogenstahl J., **Cagnoli G.**, Campbell C., Cantley C. A., Carter K., Cook D., Coyne D., Crooks D., Daw E., DeBra D., Elliffe E., Faludi J., Fritschel P. , Ganguli A., Giaime J., Gossler S., Grant A. , Greenhalgh J., Hammond M., Hanson J., Hardham C., Harry G., Heptonstall A., Heefner J., Hough J., Hoyland D., Hua W., Jones L., Jones R., Kern J., LaCour J., Lantz B., Lilienkamp K., Lockerbie N., Lück H., MacInnis M., Mailand K., Mason K., Middleman R., Nayfeh S., Nichol J., Ottaway D. J., Overmier H., Perreur-Lloyd M., Phinney J., Plissi M., Rankin W., Robertson D., Romie J., Rowan S., Scheffler R., Shoemaker D. H., Sarin P., Sneddon

P., Speake C., Spjeld O., Stapfer G., Strain K. A., Torrie C., Traylor G., van Niekerk J., Vecchio A., Wen S., Willems P., Wilmut I., Ward H., Zucker M. and Zuo L.

(2004) *Gravitational Wave and Particle Astrophysics Detectors*, J. Hough G.H. Sanders Eds., Proceedings of SPIE Vol. 5500 (Bellingham, WA) 81-91

[27] THERMOELASTIC DISSIPATION IN INHOMOGENEOUS MEDIA: LOSS MEASUREMENTS AND DISPLACEMENT NOISE IN COATED TEST MASSES FOR INTERFEROMETRIC GRAVITATIONAL WAVE DETECTORS

Fejer M.M., Rowan S., **Cagnoli G.**, Crooks D.R.M., Gretarsson A., Harry G.M., Hough J., Penn S.D., Sneddon P.H., Vyatchanin S.P.

(2004) *Phys Rev D* 70 (8) 082003

[26] EXPERIMENTAL MEASUREMENTS OF COATING MECHANICAL LOSS FACTORS

Crooks D.R.M., **Cagnoli G.**, Fejer M.M., Gretarsson A., Harry G., Hough J., Nakagawa N., Penn S., Route R., Rowan S., Sneddon P.H.

(2004) *Class. Quantum Grav.* 21 (5) S1059-65

[25] DAMPING AND TUNING OF THE FIBRE VIOLIN MODES IN MONOLITHIC SILICA SUSPENSIONS

Gossler S., **Cagnoli G.**, Crooks D.R.M., Lück H., Rowan S., Smith J.R., Strain K.A., Hough J., Danzmann K.

(2004) *Class. Quantum Grav.* 21 (5) S923-33

[24] TEST MASS MATERIALS FOR A NEW GENERATION OF GRAVITATIONAL WAVE DETECTORS

Rowan S., Byer R.L., Fejer M.M., Route R., **Cagnoli G.**, Crooks D.R.M., Hough J., Sneddon P.H., Winkler W.

(2003) *Gravitational-Wave Detection*, M. Cruise and P. Saulson Eds., Proceedings of SPIE Vol.4856, 292-7

[23] THE INTRINSIC MECHANICAL LOSS FACTOR OF HYDROXY-CATALYSIS BONDS FOR USE IN THE MIRROR SUSPENSIONS OF GRAVITATIONAL WAVE DETECTORS

Sneddon P.H., Bull S., **Cagnoli G.**, Crooks D.R.M., Elliffe E.J., Faller J.E., Fejer M.M., Hough J., Rowan S.

(2003) *Class. Quantum Grav.* 20 (23) 5025-37

[22] MECHANICAL LOSS IN TANTALA/SILICA DIELECTRIC MIRROR COATINGS

Penn S.D., Sneddon P.H., Armandula H., Betzwieser J.C., **Cagnoli G.**, Camp J., Crooks D.R.M., Fejer M.M., Gretarsson A.M., Harry G.M., Hough J., Kittelberger S.E., Mortonson M.J., Route R., Rowan S., Vassiliou C.C.

(2003) *Class. Quantum Grav.* 20 (13) 2917-28

[21] QUADRUPLE SUSPENSION DESIGN FOR ADVANCED LIGO

Robertson N.A., **Cagnoli G.**, Crooks D.R.M., Elliffe E., Faller J.E., Fritschel P., Gossler S., Grant A., Heptonstall A., Hough J., Lück H., Mittleman R., Perreux-Lloyd M., Plissi M.V., Rowan S., Shoemaker D.H., Sneddon P.H., Strain K.A., Torrie C.I., Ward H., Willems P.

(2002) *Class. Quantum Grav.* 19 (15) 4043-58

[20] EFFECTS OF NONLINEAR THERMOELASTIC DAMPING IN HIGHLY STRESSED FIBERS

Cagnoli G., Willems P.A.

(2002) *Phys Rev D* 65 (17) 174111

[19] SILICA RESEARCH IN GLASGOW

Barr B.W., **Cagnoli G.**, Casey M.M., Clubley D., Crooks D.R.M., Danzmann K., Ellife E.J., Gossler S., Grant A., Grote H., Heptonstall A., Hough J., Jennrich O., Lück H., McIntosh S.A., Newton G.P., Palmer D.A., Plissi M.V., Robertson D.I., Robertson N.A., Rowan S., Skeldon K.D., Sneddon P., Strain K.A., Torrie C.I., Ward H., Willems P.A., Willke B., Winkler W.
(2002) *Class. Quantum Grav.* 19 (7) 1655-62

[18] EXCESS MECHANICAL LOSS ASSOCIATED WITH DIELECTRIC MIRROR COATINGS ON TEST MASSES IN INTERFEROMETRIC GRAVITATIONAL WAVE DETECTORS

Crooks D.R.M., Sneddon P., **Cagnoli G.**, Hough J., Rowan S., Fejer M.M., Gustafson E., Route R., Nakagawa N., Coyne D., Harry G.M., Gretarsson A.M.
(2002) *Class. Quantum Grav.* 19 (5) 883-96

[17] THERMAL NOISE IN INTERFEROMETRIC GRAVITATIONAL WAVE DETECTORS DUE TO DIELECTRIC OPTICAL COATINGS

Harry G.M., Gretarsson A.M., Saulson P.R., Kittelberger S.E., Penn S.D., Startin W.J., Rowan S., Fejer M.M., Crooks D.R.M., **Cagnoli G.**, Hough J., Nakagawa N.
(2002) *Class. Quantum Grav.* 19 (5) 897-917

[16] VIRGO SUSPENSION R&D: FUSED SILICA AND CREEP

Gammaitoni L., Kovalik J., Marchesoni F., Punturo M., **Cagnoli G.**
(2000) *AIP Conference Proceedings* Vol. 523, 162-72

[15] SUSPENSION DESIGN FOR GEO 600 - AN UPDATE

Robertson N.A., **Cagnoli G.**, Hough J., Husman M.E., McIntosh S., Palmer D., Plissi M.V., Robertson D.I., Rowan S., Sneddon P., Strain K.A., Torrie C.I., Ward H.
(2000) *AIP Conference Proceedings* Vol. 523, 313-9

[14] MECHANICAL LOSS FACTORS OF MATERIALS AND SUSPENSION SYSTEMS FOR ADVANCED GRAVITATIONAL WAVE DETECTORS

Rowan S., Alexandrovski A., **Cagnoli G.**, Fejer M.M., Gustafson E.K., Hough J., McIntosh S., Sneddon P., Route R.
(2000) *AIP Conference Proceedings* Vol. 523, 293-9

[13] VERY HIGH Q MEASUREMENTS ON A FUSED SILICA MONOLITHIC PENDULUM FOR USE IN ENHANCED GRAVITY WAVE DETECTORS

Cagnoli G., Gammaitoni L., Hough J., Kovalik J., McIntosh S., Punturo M., Rowan S.
(2000) *Phys Rev Lett* 85 (12) 2442-5

[12] DAMPING DILUTION FACTOR FOR A PENDULUM IN AN INTERFEROMETRIC GRAVITATIONAL WAVES DETECTOR

Cagnoli G., Hough J., DeBra D., Fejer M.M., Gustafson E., Rowan S., Mitrofanov V.
(2000) *Phys Lett A* 272 (1-2) 39-45

[11] FULL SCALE PROTOTYPE OF HIGH Q PENDULUM FOR INTERFEROMETRIC GRAVITATIONAL WAVE DETECTORS

Cagnoli G., Gammaitoni L., Kovalik J., Marchesoni F., Punturo M.
(2000) *Rev Sci Instrum* 71 (5) 2206-10

[10] PENDULUM MODE THERMAL NOISE IN ADVANCED INTERFEROMETERS: A COMPARISON OF FUSED SILICA FIBERS AND RIBBONS IN THE PRESENCE OF SURFACE LOSS

Gretarsson A.M., Harry G.M., Penn S.D., Saulson P.R., Startin W.J., Rowan S., **Cagnoli G.**, Hough J.
(2000) *Phys Lett A* 270 (3-4) 108-14

- [9] INVESTIGATION OF MECHANICAL LOSS FACTORS OF SOME CANDIDATE MATERIALS FOR THE TEST MASSES OF GRAVITATIONAL WAVE DETECTORS
Rowan S., **Cagnoli G.**, Sneddon P., Hough J., Route R., Gustafson E.K., Fejer M.M., Mitrofanov V.
(2000) *Phys Lett A* 265 (1-2) 5-11
- [8] LOW-FREQUENCY INTERNAL FRICTION IN CLAMPED-FREE THIN WIRES
Cagnoli G., Gammaitoni L., Kovalik J., Marchesoni F., Punturo M.
(1999) *Phys Lett A* 255 (4-6) 230-5
- [7] EDDY CURRENT DAMPING OF HIGH Q PENDULUMS IN GRAVITATIONAL WAVE DETECTION EXPERIMENTS
Cagnoli G., Gammaitoni L., Kovalik J., Marchesoni F., Punturo M.
(1998) *Rev Sci Instrum* 69 (7) 2777-80
- [6] THE CREEP PROBLEM IN THE VIRGO SUSPENSIONS: A POSSIBLE SOLUTION USING MARAGING STEEL
Beccaria M., Bernardini M., Braccini S., Bradaschia C., **Cagnoli G.**, Casciano C., Cella G., Cuoco E., Dattilo V., De Carolis G., De Salvo R., Di Virgilio A., Feng G.T., Ferrante I., Fidecaro F., Frasconi F., Gaddi A., Gammaitoni L., Gennai A., Giazotto A., Holloway L., Kovalik J., La Penna P., Losurdo G., Malik S., Mancini S., Marchesoni F., Nicolas J., Palla F., Pan H.B., Paoletti F., Pasqualetti A., Passuello D., Poggiani R., Popolizio P., Punturo M., Raffaelli F., Rubino V., Valentini R., Vicere A., Waharte F., Zhang Z.
(1998) *NIMS* 204 (2-3) 455-69
- [5] MECHANICAL SHOT NOISE INDUCED BY CREEP IN SUSPENSION DEVICES
Cagnoli G., Gammaitoni L., Kovalik J., Marchesoni F., Punturo M., Braccini S., De Salvo R., Fidecaro F., Losurdo G.
(1997) *Phys Lett A* 237 (1-2) 21-7
- [4] THE VIRGO CHALLENGE: DETECTING STRAIN AMPLITUDES SMALLER THAN 10^{-21}
Cagnoli G., Gammaitoni L., Kovalik J., Marchesoni F., Punturo M.
(1996) *Journal de Physique IV* 6 (C8) 833-6
- [3] SUSPENSION LOSSES IN LOW-FREQUENCY MECHANICAL PENDULUMS
Cagnoli G., Gammaitoni L., Kovalik J., Marchesoni F., Punturo M.
(1996) *Phys Lett A* 213 (5-6) 245-52
- [2] DAMPING IN LOW-FREQUENCY MECHANICAL PENDULUMS
Marchesoni F., **Cagnoli G.**, Gammaitoni L.
(1994) *Phys Lett A* 187 (5-6) 359-64
- [1] ON DISLOCATION DAMPING AT LOW-FREQUENCIES
Cagnoli G., Gammaitoni L., Marchesoni F., Segoloni D.
(1993) *Philosophical Mag A* 68 (5) 865-70