

## BIANCA SALMASO PUBLICATIONS

### Paper published

- **Salmaso, B.**, *Ottiche in vetro sottile per una migliore visione del cielo X*, Giornale di Astronomia Vol. 43, No. 1, pp. 14-20 (2017)
- **Salmaso, B.**, Brizzolari, C., Spiga, D., *Model supporting the use of pressure in the hot slumping of glass substrates for X-ray telescopes*, Optics Express Vol. 24, Issue 21, pp. 24799-24804 (2016)
- Spiga, D., Barbera, M., Collura, A., Basso, S., Candia, R., Civitani, M., Di Bella, M. S., Di Cicca, G., Lo Cicero, U., Lullo, G., Pellicciari, C., Riva, M., **Salmaso, B.**, Sciortino L., Varisco, S., *Manufacturing an active X-ray mirror prototype in thin glass*, Journal of Synchrotron Radiation, Vol. 23(1), p. 59-66, (2016)
- **Salmaso, B.**, Civitani, M., Brizzolari, B., Basso, S., Ghigo, M., Pareschi, G., Spiga, D., Proserpio, L., Suppiger, Y., *Development of mirrors made of chemically tempered glass foils for future X-ray telescopes*, Experimental Astronomy, Vol. 39, Issue 3, p. 527-545 (2015)
- **Salmaso, B.**, *Gorilla glass for x-ray telescopes*, SPIE Newsroom. DOI: 10.1117/2.1201509.006122 (2015)
- Proserpio, L., Basso, S., Borsa, F., Citterio, O., Civitani, M., Ghigo, M., Pareschi, G., **Salmaso, B.**, Sironi, G., Spiga, D., Tagliaferri, G., D'Este, A., Dall'Igna, R., Silvestri, M.m Parosi, G., Martelli, F., Bavadz, M., Wille, E., *Evaluation of the surface strength of glass plates shaped by hot slumping process*, Optical Engineering, 53, Issue 8, 085101 (2014)
- **Salmaso, B.**, Spiga, D., Canestrari, R., Raimondi, L., *X-ray scattering of periodic and graded multilayer: comparison of experiments to simulation from surface microroughness characterization*, Nuclear Instruments and Methods in Physics Research A, Vol. 710, p. 106-113 (2013)
- Civitani, M., Basso, S., Citterio, O., Conconi, P., Ghigo, G., Pareschi, G., Proserpio, L., **Salmaso, B.**, Sironi, G., Spiga, D., Tagliaferri, G., Zambra, A., Martelli, F., Parodi, G., Fumi, P., Gallieni, D., Tintori, M., Bavadz, M., Wille, E., *Accurate integration of segmented X-ray optics using interfacing ribs*, Optical engineering, Vol. 52, Issue 9, 091809 (2013)

### Conference proceedings

- **Salmaso, B.**, Basso, S., Civitani, M., Ghigo, M., Holyszko, J., Spiga, D., Vecchi, G., Pareschi, G., *Fused silica segments: a possible solution for x-ray telescopes with very high angular resolution like Lynx/XRS*, Proc. SPIE 10399, 103990X (2017)
- Spiga, D., Christensen, F.E., Bavadz, M., Bianucci, G., Civitani, M.M., Collon, M., Conconi, P., Della Monica Ferreira, D., Marioni, F., Massahi, S., Pareschi, G., **Salmaso, B.** Shortt, B., Tayabaly, K., Valsecchi, G., Vacanti, G., Westergaard, N.J., Wille, E., *Optical simulations for design, alignment, and performance prediction of silicon pore optics for the ATHENA x-ray telescope*, Proc. SPIE 10399, in press (2017)
- Basso, S., Civitani, M., Ghigo, M., Holyszko, J., Pareschi, G., **Salmaso, B.**, Spiga, D., Vecchi, G., *A hybrid concept (segmented plus monolithic fused silica shells) for a high-throughput and high-angular resolution x-ray mission (Lynx/X-Ray Surveyor like)*, Proc. SPIE 10399, in press (2017)
- Basso, S., Civitani, M., Ghigo, M., Holyszko, J., Pareschi, G., **Salmaso, B.**, Vecchi, G., Burwitz, V., Pellicciari, C., Hartner, G., Breunig, E., *X-ray mirror prototype based on cold shaping of thin glass foils*, Proc. SPIE 10399, 1039911 (2017)

- Probst, A.-C., Döhring, T., Zeising, S., **Salmaso, B.**, Stollenwerk, M., Proserpio, L., *Challenges in metrology of mirror segments for X-ray telescopes*, Proceedings of the 8th High Level Expert Meeting Asphere Metrology 2017, (2017)
- Probst, A.-C., Döhring, T., **Salmaso, B.**, Proserpio, L., *Shape measurement of thin glass substrates for X-ray mirrors: cross calibration of different equipments*, Proceedings of the EOSAM - European Optical Society Annual Meeting 2016, (2016)
- **Salmaso, B.**, Basso, S., Civitani, M.M., Ghigo, M., Holyszko, J., Spiga, D., Vecchi, G., Pareschi, G., *Slumped Glass Optics development with pressure assistance*, Proc. SPIE 9905, 990523 (2016)
- **Salmaso, B.**, Basso, S., Civitani, M., Ghigo, M., Holyszko, J., Pelliciari, C., Spiga, D., Vecchi, G., Pareschi, G., *Slumped glass foils as substrate for adjustable X-ray optics*, Proc. SPIE 9965, 99650B (2016)
- Cotroneo, V., Allured, R., Reid, P.B., DeRoo, C.T., Schwartz, D.A., Marquez, V., Vikhlinin, A.A., Civitani, M., **Salmaso, B.** Pareschi, G., *Thermal forming of substrates for the X-ray Surveyor telescope*, Proc. SPIE 9965, 99650C (2016)
- Spiga, D., Pelliciari, C., **Salmaso, B.** Arcangeli, L., Bianucci, G., Ferrari, C., Ghigo, M., Pareschi, G., Rossi, M., Tagliaferri, G., Valsecchi, G., Vecchi, G., Zappettini, A., *Design and advancement status of the Beam Expander Testing X-ray facility (BEaTriX)*, Proc. SPIE 9963, 996304 (2016)
- Spiga, D., Christensen, F.E., Baudaz, M., Civitani, M.M., Conconi, P., Della Monica Ferreira, D., Knudsen, E.B., Massahi, S., Pareschi, G., **Salmaso, B.** Shortt, B., Tayabaly, K., Westergaard, N.J., Wille, E., *Simulation and modeling of silicon pore optics for the ATHENA x-ray telescope*, Proc. SPIE 9905, 99055O (2016)
- Spiga, D., Barbera, M., Collura, A., Basso, S., Candia, R., Civitani, M., Di Cicca, G., Lo Cicero, U., Lullo, G., Pellicciari, C., Riva, M., **Salmaso, B.**, Sciortino, L., Varisco, S., *Realization and drive tests of an active thin glass x-ray mirror*, Proc. SPIE 9965, 996509 (2016)
- Civitani, M., Basso, S., Ghigo, M., Pareschi, G., **Salmaso, B.**, Spiga, D., Vecchi, G., Banham, R., Breuning, E., Burwitz, V., Hartner, G., et al., *Cold and Hot Slumped Glass Optics with interfacing ribs for high angular resolution X-ray telescopes*, Proc. SPIE 9905, 99056U (2016)
- Pareschi, G., Basso, S., Civitani, M., Ghigo, M., Parodi, G., Pelliciari, C., **Salmaso, B.**, Spiga, D., Vecchi, G., *Beyond Chandra: problems, solutions, and perspectives for the implementation of very high angular resolution x-ray telescopes in the new millennium*, Proc. SPIE 9905, 99051T (2016)
- Allured, R., Hertz, E., Marquez, V., Cotroneo, V., Wallace, M.L, **Salmaso, B.**, Civitani, M., Trolier-McKinstry, S., Alexey, V., Pareschi, G.; Reid, P., *Laboratory demonstration of the piezoelectric figure correction of a cylindrical slumped glass optic*, Proc. SPIE 9905, 990554 (2016)
- Allured, R., Hertz, E., Marquez, V., Cotroneo, V., Wallace, M. L., **Salmaso, B.**, Civitani, M.M., Trolier McKinstry, S., Vikhlinin, A., Pareschi, Giovanni, R., Paul B., et al., *Laboratory demonstration of the piezoelectric figure correction of a cylindrical slumped glass optic*, American Astronomical Society, HEAD meeting 15, id.116.02 (2016)
- Lo Cicero, U., Sciortino, L., Lullo, G., Di Bella, M., Barbera, B., Collura, A., Spiga, D., Basso, S., Civitani, M., Pelliciari, C., Salmaso, B., Candia, R., *Electrical connections and driving electronics for piezo-actuated x ray thin glass optics*, Proc. SPIE 9965, 99650A (2016)
- **Salmaso, B.**, Basso, S., Brizzolari, C., Civitani, M., Ghigo, M., Pareschi, G., Spiga, D., Tagliaferri, G., Vecchi, G., *Direct hot slumping of thin glass foils for future generation X-ray telescopes: current state of the art and future outlooks*, Proceedings of the 2014 International Conference on Space Optics (2015)

- **Salmaso**, B., Basso, S., Brizzolari, C., Civitani, M., Ghigo, M., Pareschi, G., Spiga, D., Tagliaferri, G., Vecchi, G., *Slumped Glass Optics for X-ray telescopes: advances in the hot slumping assisted by pressure*, Proc SPIE 9603, 96030O (2015)
- Civitani, M.M., Basso, S., Citterio, O., Ghigo, M., Salmaso, B., Pareschi, G., Vecchi, G., *Cold shaping of thin glass foils: a fast and cost-effective solution for making light-weight astronomical x-ray optics*, Proc SPIE 9603, 960310 (2015)
- Civitani, M., Basso, S., Brizzolari, C., Ghigo, M., Pareschi, G., **Salmaso**, B., Spiga, D., Tagliaferri, G., Vecchi, G., Breuning, E., Burwitz, V., *Slumped glass optics with interfacing ribs for high angular resolution X-ray astronomy: a progress report*, Proc SPIE 9603, 96030P (2015)
- Spiga, D., Barbera, M., Collura, A., Basso, S., Candia, R., Civitani, M., Di Bella, M., Di Cicca, G., Lo Cicero, U., Lullo, G., Pelliciari, C., Riva, M., Salmaso, B., Sciortino, L., Varisco, S., *Manufacturing and testing a thin glass mirror shell with piezoelectric active control*, Proc SPIE 9603, 96031N (2015)
- Spiga, D., **Salmaso**, B., She, R., Tayabaly, K., Wen, M., Banham, R., Costa, E., Feng, H., Giglia, A., Huang, Q., Muleri, F., Pareschi, G., Soffitta, P., Tagliaferri, G., Valsecchi, G., Wang, Z., *Testing multilayer-coated polarizing mirrors for the LAMP soft X-ray telescope*, Proc SPIE 9603, 96031B (2015)
- She, R., Feng, H., Soffitta, P., Muleri, F., Xu, R., Li, H., Bellazzini, R., Wang, Z., Spiga, D., Minuti, M., Brez, A., Spandre, G., Pinchera, M., Sgro, C., Baldini, L., Wen, M., Shen, Z., Pareschi, G., Tagliaferri, G., Tayabaly, K., **Salmaso**, B., Zhan, Y., *LAMP: a micro-satellite based soft X-ray polarimeter for astrophysics*, Proc. SPIE 9601, 96010I (2015)
- **Salmaso**, B., Basso, S., Brizzolari, C., Civitani, M.M., Ghigo, M., Pareschi, G., Spiga, D., Tagliaferri, G., Vecchi, G., *Production of thin glass mirrors by hot slumping for X-ray telescopes: present process and ongoing development*, Proc SPIE 9151, 91512W (2014)
- Civitani, M., Basso, S., Ghigo, G., Pareschi, G., **Salmaso**, B., Spiga, D., Tagliaferri, G., Vecchi, G., Burwitz, V., Hartner, G., Menz, B., *X-ray optical units made of glass: achievements and perspectives*, Proc. SPIE 9144, 914416 (2014)
- Basso, S., Buratti, E., Civitani, M.M., Pareschi, G., **Salmaso**, B., Spiga, D., Tagliaferri, G., Eder, J., A *high resolution large x-ray mission based on thin glass: optomechanical design*, Proc. SPIE 9144, 91444C (2014)
- Spiga, D., Barbera, M., Basso, S., Civitani, M., Collura, A., Dell'Agostino, S., Lo Cicero, U., Lullo, G., Pelliciari, C., Riva, M., **Salmaso**, B., Sciortino, L., *Active shape correction of a thin glass/plastic X-ray mirror*, Proc. SPIE 9208, 92080A (2014)
- **Salmaso**, B., Bianco, A., Citterio, O., Pareschi, G., Pariani, G., Proserpio, L., Spiga, D., Mandelli, D., Negri, M., *Micro-roughness improvement of slumped glass foils for X-ray telescopes via dip coating*, Proc. SPIE 8861-60 (2013)
- Proserpio, L., Crimi, G., Ghigo, M., Pareschi, G., **Salmaso**, B., D'Este, A., Dall'Igna, R., Silvestri, M., Parodi, G., Martelli, F., *Evaluation of the surface strength of glass plates shaped by hot slumping process*, Proc. SPIE 8861, 88610S (2013)
- Civitani, M., Ghigo, M., Basso, S., Proserpio, L., Spiga, D., **Salmaso**, B., Pareschi, G., Tagliaferri G., Burwitz, V., Hartner, G.D., Menz, B., Bvdaz, M., Wille, E., *Direct hot slumping and accurate integration process to manufacture prototypal x-ray optical units made of glass*, Proc. SPIE 8861, 886110 (2013)
- Spiga, D., Basso, S., Bvdaz, M., Burwitz, V., Civitani, M., Citterio, O., Ghigo, M., Hartner, G., Menz, B., Pareschi, G., Proserpio, L., **Salmaso**, B., Tagliaferri, G., Wille, E., *Profile reconstruction of grazing-incidence X-ray mirrors from near-fields X-ray full imaging*, Proc. SPIE 8861, 88611F (2013)

- Ghigo, M., Proserpio, L., Basso, S., Citterio, O., Civitani, M., Pareschi, G., **Salmaso, B.**, Sironi, G., Spiga, D., Tagliaferri, G., et al., *Slumping technique for the manufacturing of a representative x-ray grazing incidence mirror module for future space missions*, Proc. SPIE 8884, 88841Q (2013)
- Bavdaz, M., Wille, E., Wallace, K., Shortt, B., Fransen, S., Rando, N., Collon, M., Ackermann, M., Vacanti, G., Guenther, R., Haneveld, J., Riekerink, M.O., Koelewijn, A., van Baren, C., Kampf, D., Zuknik, K.H., Reutlinger, A., Christensen, F., Della Monica Ferreira, D., Jakobsen, A.C., Krumrey, M., Mller, P., Burwitz, V., Pareschi, G., Ghigo, M., Civitani, M., Proserpio, L., Spiga, D., Basso, S., **Salmaso, B.**, Gallieni, D., Tintori, M., Fumi, P., Martelli, F., Parodi, G., Ferrario, I., Povey, I., *X-ray optics developments at ESA*, Proc. SPIE 8861, 88610L (2013)
- Proserpio, L., Basso, S., Civitani, M., Citterio, O., Conconi, P., Ghigo, M., Pareschi, G., **Salmaso, B.**, Spiga, D., Tagliaferri, G., *Segmented glass optics for next generation X-ray telescopes*, Memorie della Societa Astronomica Italiana, Vol. 84, p. 819 (2013)
- Spiga, D., Pareschi, G., Pelliciari, C., **Salmaso, B.**, Tagliaferri, G., *Functional tests of modular elements of segmented optics for X rays telescopes via an expanded beam facility*, Proc. SPIE 8443, 84435F (2012)
- Ghigo, M., Basso, S., Borsa, F., Bavdaz, M., Citterio, O., Civitani, M., Conconi, P., Pagano, G., Gallieni, D., Martelli, F., Parodi, G., Pareschi, G., Proserpio, L., **Salmaso, B.**, Sironi, G., Spiga, D., Tagliaferri, G., Tintori, M., Wille, E., Zambra, A., *Development of high angular resolution x-ray telescopes based on slumped glass foils*, Proc. SPIE 8443, 84430R (2012)
- **Salmaso, B.**, Spiga, D., Canestrari, R., Raimondi, L., *Accurate modeling of periodic and graded multilayer X-ray scattering from surface microroughness characterization*, Proc. SPIE 8147, 814710 (2011)
- Spiga, D., Raimondi, L., Furuzawa, A., Basso, S., Binda, R., Borghi, G., Cotroneo, V., Grisoni, G., Kunieda, H., Marioni, F., Matsumoto, H., Mori, H., Miyazawa, T., Negri, B., Orlandi, A., Pareschi, G., **Salmaso, B.**, Tagliaferri, G., Uesugi, K., Valsecchi, G., Vernani, D., *Angular resolution measurements at SPring-8 of a hard X-ray optic for the New Hard X-ray Mission*, Proc. SPIE 8147, 81470A (2011)
- Proserpio, L., Ghigo, M., Basso, S., Conconi, P., Citterio, O., Civitani, M., Negri, R., Pagano, G., Pareschi, G., **Salmaso, B.**, Spiga, D., Tagliaferri, G., Tintori, M., Terzi, L., Zambra, A., *Production of the IXO glass segmented mirrors by hot slumping with pressure assistance: tests and results*, Proc. SPIE 8147, 81470M (2011)
- Basso, S., Pareschi, G., Citterio, O., Spiga, D., Tagliaferri, G., Raimondi, L., Sironi, G., Cotroneo, V., **Salmaso, B.**, Negri, B., Attinà, P., Borghi, G., Orlandi, A., Vernani, D., Valsecchi, G., Binda, R., Marioni, F., Moretti, S., Castelnuovo, M., Burkert, W., Freyberg, M.J., Burwitz, V., *The optics system of the New Hard X-ray Mission: status report*, Proc. SPIE 8147, 814709 (2011)
- Orlandi, A., Basso, S., Borghi, G., Binda, R., Citterio, O., Grisoni, G., Kools, J., Marioni, F., Missaglia, N., Negri, B., Negri, R., Pareschi, G., Raimondi, L., Ritucci, A., **Salmaso, B.**, Sironi, G., Spiga, D., Subranni, R., Tagliaferri, G., Valsecchi, G., Vernani, D., *Technologies for manufacturing of high angular resolution multilayer coated optics for the New hard X-ray Mission*, Proc. SPIE 8076, 807606 (2011)
- Pareschi, G., Basso, S., Bavdaz, M., Conconi, C., Citterio, O., Civitani, M., Friedrich, P., Gallieni, D., Ghigo, M., Guldimann, B., Martelli, F., Pagano, G., Parodi, G., Proserpio, L., **Salmaso, B.**, Schael, A., Spiga, D., Tagliaferri, G., Tintori, M., Vongehr, M., Zambra, A., *Hot slumping glass technology in Europe for the IXO segmented mirrors*, IXO science meeting 2010, Paris (2010)
- Ghigo, M., Basso, S., Bavdaz, M., Conconi, P., Citterio, O., Civitani, M., Friedrich, P., Gallieni, D., Guldimann, B., Martelli, F., Negri, R., Pagano, G., Pareschi, G., Parodi, G., Proserpio, L., **Salmaso, B.**, Scaglione, F., Spiga, D., Tagliaferri, G., Terzi, L., Tintori, M., Vongehr, M., Wille, E., Winter, A., Zambra, A., *Hot slumping glass technology for the grazing incidence optics of future missions with particular reference to IXO*, Proc. SPIE 7732, 77320C (2010)

- Civitani, M., Basso, S., Bavdaz, M., Citterio, O., Conconi, P., Gallieni, D., Ghigo, M., Guldmann, B., Martelli, F., Pagano, G., Pareschi, G., Parodi, G., Proserpio, L., **Salmaso, B.**, Spiga, D., Tagliaferri, G., Tintori, M., Wille, E., Zambra, A., *IXO x-ray mirrors based on slumped glass segments with reinforcing ribs: optical and mechanical design, image error budget, and optics unit integration process*, Proc. SPIE 7732, 773242 (2010)
- Civitani, M., Basso, S., Bianco, A., Conconi, P., Citterio, O., Ghigo, M., Pagano, G., Pareschi, G., Proserpio, L., **Salmaso, B.**, Spiga, D., Tagliaferri, G., Zambra, A., Friedrich, P., Vongehr, M., Schael, A., Parodi, G., Martelli, F., Gallieni, D., Tintori, M., Bavdaz, M., Guldmann, B., *Hot slumped glass segments with reinforcing ribs technology for the manufacturing of the IXO telescope modules*, Proceedings of the 2010 International Conference on Space Optics (2010)

### Internal Report

- **Salmaso, B.**, Basso, S., Civitani, M., Ghigo, M., Pariani, G., Spiga, D., Vecchi, G., Arcangeli, L., Rituucci, A., Rossi, M., Pareschi, G. *Fused Silica thin segments for X-ray telescopes: status of the process at OAB*, INAF/OAB internal report 10/2017
- **Salmaso, B.**, Spiga, D., *Roughness characterization of an SPO sample with AFM: optical side and non-optical side in the inter-rib region*, INAF/OAB internal report 08/2017
- **Salmaso, B.**, Spiga, D., *X-ray scattering measurements of Fused Silica samples after Ion Beam Figuring*, INAF/OAB internal report 06/2017
- Holyszko, J., **Salmaso, B.**, Ghigo, M., Arcangeli, L., Passaretti, L., Spiga, D., *Detecting the mitigation of fused silica roughening after Ion Beam Figuring*, INAF/OAB internal report 05/2017
- Spiga, D., Pareschi, G., **Salmaso, B.**, Tagliaferri, G., *BEaTriX X-ray facility for testing ATHENA mirror modules: a white paper for the implementation*, INAF/OAB internal report 02/2017
- Probst, A.C., **Salmaso, B.**, *CalSurMeX-2 (Calibrating Surface Measurements of X-ray mirrors)*, Report 2017, AHEAD Visitor Program AO cycle-2 call-2, INAF/OAB and Hochschule Aschaffenburg - University of Applied Sciences - Faculty of Engineering (Germany) (2017)
- **Salmaso, B.**, Crimi, G. *Cleaning of Ruths primary mirror: 2016*, INAF/OAB internal report 09/2016
- **Salmaso, B.**, *CalSurMeX-1 (Calibrating Surface Measurements of X-ray mirrors)*, Report 2016, AHEAD Visitor Program AO cycle-1 call-2, INAF/OAB and Hochschule Aschaffenburg - University of Applied Sciences - Faculty of Engineering (Germany) (2016)
- Holyszko, J., **Salmaso, B.**, Civitani, M., *Characterization of the profiles of glass foils after cutting and annealing*, INAF/OAB internal report 13/2015
- Civitani, M.M., **Salmaso, B.**, Proserpio, L., Pareschi, G., *X-ray optics with slumped glasses: High-resolution metrology with CUP of AF32 slumped glasses*, INAF/OAB internal report 12/2015
- **Salmaso, B.**, Brizzolari, C., Pariani, G., Spiga, D., *LTP and ZYGO comparison of the profile measurements of the MK20-20B slumping mould*, INAF/OAB internal report 04/2015
- **Salmaso, B.**, Brizzolari, C., Arcangeli, L., Rossi, M., Spiga, D., *Characterization of the Zerodur K20-20B cylindrical slumping mould polished by Hellma*, INAF/OAB internal report 03/2015
- **Salmaso, B.**, Spiga, D., *Acceptance test and calibration of the Explorer Atomic Force Microscope new head*, INAF/OAB internal report 02/2015

- **Salmaso, B.**, Brizzolari, C., Basso, S., Civitani, M., Spiga, D., *Optimization of the slumping process of Eagle XG on Zerodur K20: fine tuning for the production of POC4 glass foils*, INAF/OAB internal report 01/2015
- **Salmaso, B.**, Brizzolari, C., Civitani, M., Sanvito, G., Spiga, D., *Slumping Eagle XG on new Zerodur K20 MK20-20 mould*, INAF/OAB internal report 15/2014
- **Salmaso, B.**, Brizzolari, C., Civitani, M., *Characterization of the Silicon cylindrical slumping mould polished by HELLMA*, INAF/OAB internal report 11/2014
- **Salmaso, B.**, Brizzolari, C., *Sticking of Eagle glass on Zerodur K20-20: failure analysis*, INAF/OAB internal report 06/2014
- Tayabaly, K., Spiga, D., **Salmaso, B.**, Valsecchi, G., Banham, R., Missaglia, N., Pareschi, G., Tagliaferri, G., *Electroformed nickel samples for the polarimetric LAMP X-ray telescope: sample roughness characterization*, INAF/OAB internal report 05/2014
- **Salmaso, B.**, Crimi, G., *Cleaning of Ruths primary mirror*, INAF/OAB internal report 04/2014  
Spiga, D., Civitani, M., Burwitz, V., Burkert, W., Menz, B., Hartner, G., Salmaso, B., Basso, S., Pareschi, G., Tagliaferri, G., et al., *Proof of Concept No. 2 optic with slumped glasses: tests in focus at PANTER*, INAF/OAB internal report 03/2014
- **Salmaso, B.**, Brizzolari, C., *From AF32 to Eagle XG: characterization of glasses slumped on Zerodur K20-10 mould*, INAF/OAB internal report 02/2014
- **Salmaso, B.**, Brizzolari, C., Spiga, D., *Characterization of the Zerodur K20-20 cylindrical slumping mould polished by HELLMA*, INAF/OAB internal report 01/2014
- **Salmaso, B.**, Fine-tuning of slumped AF32 glasses on a Zerodur K20 mould., INAF/OAB internal report 14/2013
- **Salmaso, B.**, Basso, S., *LTP profiles of AF32 glasses with FEA correction: a method to remove spurious mid-frequency errors*, INAF/OAB internal report 12/2013
- Spiga, D., Civitani, M., Proserpio, L., **Salmaso, B.**, Basso, S., Burwitz, V., Menz, B., Hartner, G., Budau, B., *IXO backup optics with slumped glasses: PANTER test of the Proof of Concept 2 optic*, INAF/OAB internal report 10/2013
- **Salmaso, B.**, Bianco, A., Proserpio, L., Ghigo, M., Spiga, D., *IXO glasses cleaning procedure after slumping: removing residuals affecting the high frequency region.* , INAF/OAB internal report 01/2013
- Spiga, D., Civitani, M., Proserpio, L., Ghigo, M., Basso, S., **Salmaso, B.**, Pareschi, G., Zambra, A., Pagano, G., Burwitz, V., Menz, B., Hartner, G., Budau, B., Friedrich, P., Winter, A., *IXO back-up optics with slumped glasses: XOU-BB tests at PANTER and INAF/OAB*, INAF/OAB internal report 05/2012
- Spiga, D., **Salmaso, B.**, Proserpio, L., Ghigo, M., Basso, S., Civitani, M., Pareschi, G., Sironi, G., Pagano, G., Zambra, A., Burwitz, V., Burkert, W., Hartner, G., Budau, B., *IXO back-up optics with slumped glasses: Proof of Concept (PoC) tests at PANTER and INAF/OAB*, INAF/OAB internal report 04/2012
- **Salmaso, B.**, Spiga, D., *AFM analysis of test wafers coated with Cr-Ni-Au layers: roughness characterization*, INAF/OAB internal report 01/2012
- Raimondi, L., **Salmaso, B.**, Spiga, D., Valsecchi, G., Orlandi, A., Borghi, G., Rossi, M., Marioni, F., Basso, S., Burwitz, V., et al., *X-ray tests at PANTER on the TDM3 optic prototype for the New Hard X-ray Mission*, INAF/OAB internal report 06/2011
- Spiga, D., Proserpio, L., Pagano, G., **Salmaso, B.**, *Characterization of slumped glasses for the IXO backup optics project, phase 2*, INAF/OAB internal report 05/2011

- Spiga, D., Raimondi, L., **Salmaso, B.**, *High-resolution X-ray scattering measurement of slumped glasses*, INAF/OAB internal report 04/2011
- Raimondi, L., Spiga, D., **Salmaso, B.**, *IXO slumped glasses D5 and D7: analysis of spatial wavelength impact on the Point Spread Function by means of the Fresnel diffraction*, INAF/OAB internal report 03/2011
- **Salmaso, B.**, Raimondi, L., Negri, R., Spiga, D., Binda, R., Orlandi, A., Valsecchi, G., *Hard X-ray mirrors for NHXM: reflectivity and roughness characterization of mirror shell samples*, INAF/OAB internal report 02/2011
- Spiga, D., Raimondi, L., **Salmaso, B.**, Valsecchi, G., Orlandi, A., Borghi, G., Binda, R., Basso, S., Borrelli, D., Marioni, F., Ferretti, L., Freyberg, M., Burkert, W., Hartner, G., Budau, B., Tagliaferri, G., Pareschi, G., *X-ray tests at PANTER on the TDM2 optic prototype for the New Hard X-ray Mission*, INAF/OAB internal report 06/2010
- Spiga, D., Raimondi, L., **Salmaso, B.**, Negri, R., *Reflectivity and stress characterization of W/Si and Pt/C multilayer samples for the New Hard X-ray Mission phase B development*, INAF/OAB internal report 03/2010

#### Ph.D. thesis

**Salmaso, B.**, "Angular resolution improvement of slumped thin glass optics for X-ray telescopes", Ph.D. Università degli Studi dell'Insubria, DOI: 10.13140/RG.2.1.1558.9360 (2016)