

BRUNELLESCHI'S DOME and the MATHEMATICS

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Abstract In this paper I will present the mathematical aspects which have been extremely useful in the study and in the knowledge of the Dome. In particular, the authors of the book "*The secret of Brunelleschi's Dome at Florence*" have developed the mathematical models of theories that scholars have elaborated on the Dome, obtaining very interesting results.

Key words Elliptic cylinder, helix, catenary, laser-scanner, method of the least squares, standard deviation.