

1086-K1-830 **Irene Iaccarino*** (irene.iaccarino@hotmail.it), via Interna Marina 19, 88900 Crotone, Italy.
Numbers in Music. Harmonies, Numbers, Notes: the Values of Pythagorean School.

Around the 6th - 5th century, something very important happened in the history of mankind, something beautiful and enchanting. Musical harmony stirs up curiosity in a man and urges him to search parameters linked to the production of sounds and to formulate aesthetic rules by these numbers. In twenty centuries, this procedure will be called 'scientific method' and the western world will have an unthinkable development. No doubt, the link between music and mathematics has to trace back to this man and his school and this work wants to investigate the transdisciplinary period between the 6th and 3rd century B.C. In fact, the advices given by Pythagoras to his students continued for three centuries by Philolaus, Archita and others, but particularly by his wife Theanò, a mathematician, psychologist, manager and the first great female scientist of ancient times, who, together with their children, had a unique mission: the diffusion of their scientific thought. This paper is the beginning of a work in progress on the topicality of pythagorean thought and the importance today, more than ever, of the style of life of that school and its values. (Received September 14, 2012)