

1135-F1-909

Samaneh G. Hamidi*, Department of Mathematics, Brigham Young University, Provo, UT
84602. *Mathematics in Persian Art II*. Preliminary report.

Persia has left numerous marks on the civilizations and cultures of mankind dating back to the early 5th millennia BC. Persian architecture has been a comprehensive embodiment of Iranian psychology and characteristics in different historical periods from the first scientific notions of astronomy with the measurement of the celestial sphere and determination of the new year according to the vernal equinox to the mathematics of shapes, solids, and numbers. Persians have combined skills in theoretical mathematics and practical techniques such as ceramics, along with artistic ideas from their own history and around the world. Putting these together, they have expressed several appealing forms that bridge mathematics and the arts. The purpose of this talk is to get a glimpse of mathematics in Persian arts in different eras and also to present a more detailed visual analysis of a ceramic design. (Received September 16, 2017)