Samaneh Gholizadeh Hamidi* (s.hamidi@mathematics.byu.edu), Department of Mathematics, Brigham Young University, Provo, UT 84602. *Math and Persian Art.* Preliminary report.

Persia has left numerous marks on the civilizations and cultures of human beings, dating back to ancient times. From the first scientific notions of astronomy and 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. Also, Persian arts have played important roles. Persian workers 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, which 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, 2016)