

1125-01-110

Mohammad K. Azarian* (azarian@evansville.edu), Department of Mathematics, University of Evansville, 1800 Lincoln Avenue, Evansville, IN 47722. *Mathematics Contributions of ‘Abd al-‘Alī al-Bīrjandī [Bīrjandī]*.

Nizām al-Dīn ‘Abd al-‘Alī ibn Muhammad ibn Husain al-Bīrjandī (d. 934 A.H.L./1527-28), known as ‘Abd al-‘Alī Bīrjandī, was an acclaimed Iranian polymath. He was born in the second half of the 15th century in Bīrjand, the center city of Southern Khorāsān province in present day Iran, and was educated in Bīrjand and Herāt . It is believed that he was the youngest scientist working at Samarqand observatory before going to Isfahān in 1501. There, he was engaged in scientific work at the court of Shāh Ismā‘il Safavid [Safavī] until 1524. There are up to 22 pieces of scholarly work attributed to Bīrjandī. Bīrjandī’s best known works are in mathematics and astronomy. However, he also wrote treatises, commentaries, and books on astrology, logic, cosmology, agriculture, physics, geography, and religion. We will discuss his contributions to mathematics, including Sharh-i Zaij-i Ulugh Beg (“Commentaries on Ulugh Beg’s Astronomical Tables”), Sharh-i tahrīr al-Majistī (“Commentaries on Exposition of Almagest”), and Bīst bāb dar taqwīm [taqvīm] (“Twenty Chapters on the Calendar”). (Received July 30, 2016)