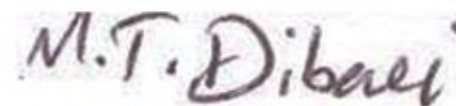




We hereby certify that, **Irena Swanson - Purdue University, USA**, participated virtually in the 17th (Virtual) Seminar on COMMUTATIVE ALGEBRA AND RELATED TOPICS, held at the School of Mathematics of IPM, Tehran, Iran, on January 6-8, 2021 and presented the following plenary talk:

“Primary Decompositions and Powers of Ideals”.

Tehran, January 25, 2021



Mohammad T. Dibaei
Organizing Committee