

1154-97-1976 **Cezar Lupu*** (cezar.lupu@ttu.edu), 2500 Broadway, Lubbock, TX 79409. *How to coordinate a problem at the International Mathematical Olympiad?* Preliminary report.

In this talk, I shall describe my experience as a coordinator at the 2018 International Mathematical Olympiad (IMO 2018) which was held in Cluj-Napoca, Romania.

The problem I coordinated with other Romanian colleagues was N4 from the IMO Shortlist. We discuss several alternative approaches to this problem where p-adic valuation plays an important role.

Also, we present the social aspect of the Olympiad in which the predominant factor was the interaction with other mathematicians around the world. (Received September 16, 2019)