

Palaeosecular variation in India through archaeomagnetic study

Speaker: Pradnya Mohite

Earth's magnetic field is constantly changing, and understanding these changes over time offers valuable insights into the dynamics of earth's interior. One powerful way to study this is through the construction of a palaeosecular variation (PSV) curve, which tracks how the magnetic field has varied over thousands of years. In this talk, I will present a PSV curve developed for the Indian subcontinent using data from well-dated archaeological materials that preserve a record of the ancient magnetic field. The resulting curve reveals the distinct temporal variations in geomagnetic field intensity and offers valuable constraints for regional geomagnetic field models. In addition to this, the PSV curve provides a valuable tool for dating archaeological materials.