1172-53-331   **Junqing Qian*** (`jqian20@unm.edu`), University of New Mexico, Department of Mathematics and Statistics, 311 Terrace Street NE, Room 389, Albuquerque, NM 87106. *Explicit asymptotic expansion of the complete Kähler-Einstein metric on punctured Riemann sphere.*

We will talk about using modular functions in number theory to derive a precise asymptotic expansion of the complete Kähler-Einstein metric for the punctured Riemann spheres with a certain number of omitting points. (Received August 31, 2021)