1145-11-454   **Amir Akbary** and **Alia Hamieh*** (`alia.hamieh@unbc.ca`). *Value-distribution of cubic Hecke L-functions.*

A significant part of the research in number theory studies the values of L-functions in the critical strip $0 < \Re(s) < 1$. The L-functions in their value-distribution cary important information about the underlying structures. In this talk, we survey some recent value-distribution results. We also describe a value-distribution theorem for the logarithms and logarithmic derivatives of a family of L-functions attached to cubic Hecke characters. As a corollary of our results, we establish the existence of an asymptotic distribution function for the error term of the Brauer-Siegel asymptotic formula for a certain family of cubic extensions of $\mathbb{Q}(\sqrt{-3})$. We also deduce a similar result for the Euler-Kronecker constants of this family. This is joint work with Amir Akbary. (Received September 06, 2018)