

1119-32-37

Tatyana Barron* (tatyana.barron@uwo.ca). *Submanifolds of the unit ball in \mathbb{C}^n and vector-valued automorphic forms.*

I will show how to associate a vector-valued automorphic form $F_\Lambda^{(k)}$ of weight $k \in \mathbb{N}$ to a submanifold Λ of an irreducible bounded symmetric domain D . It is an interesting question how the properties of $F_\Lambda^{(k)}$ reflect the properties of Λ (for example, such as Λ being totally real or CR). For $D = \mathbb{B}^n$ I will present some asymptotic results (as $k \rightarrow \infty$) and examples. (Received January 28, 2016)