1120-42-87   **Kasso Okoudjou*** (`kasso@math.umd.edu`), Department of Math, Math Blg, College Park, MD 20742. *A new proof of the three-point HRT conjecture.* Preliminary report.

In this talk we introduce an extension principle to investigate the Heil-Ramanathan-Topiwala (HRT) conjecture. More specifically, knowing that the Conjecture holds for a given function $g \in L^2(\mathbb{R})$ and a given set $\Lambda = \{(a_k, b_k)\}_{k=1}^N \subset \mathbb{R}^2$, we seek the set of all (new) points $(a, b) \in \mathbb{R}^2 \setminus \Lambda$ such that the conjecture remains true for the same function g and the new set $\Lambda' = \Lambda \cup \{(a, b)\}$. We demonstrate the merit of this approach by giving a new proof of the HRT conjecture for 3 points. (Received February 14, 2016)

1