1014-43-411 **Wael N. AbuShamala*** (wabusham@indiana.edu), 408, S DUNN ST. #12, Bloomigton, IN 47401. *Characterization of $BMO(R)$ and the $T(1)$ Theorem.*

I will describe the space BMO(R) in terms of its closely related, simpler dyadic counterpart. As a result of this characterization it is possible to establish when a bounded linear operator that maps a Banach space into dyadic BMO(R) actually maps continuously into BMO(R). This, and other closely related characterizations, give new ways to look at the conditions of the $T(1)$ theorem, including an essentially dyadic version. (Received September 15, 2005)