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Simon Bortz* (sbortz@ua.edu), 345 Gordon Palmer Hall, Tuscaloosa, AL 35487. *Carleson conditions and weights.*

It has been understood for some time that weights can be characterized by Carleson conditions. In particular, there are two such characterizations furnished by Fefferman, Kenig and Pipher [FKP], one dyadic and one continuous. (They use the dyadic condition to produce a counterexample in the study of elliptic measure.) These conditions were further expanded upon by Buckley and Korey as well as others more recently. In some recent work with Toro and Zhao, I formed a new connection between the continuous condition in [FKP] and some elliptic measures by leveraging a recent and very interesting paper of David, Li and Mayboroda. I will discuss a small constant, continuous version of [FKP], which I proved with Egert and Saari and its implications for elliptic measure (via my work with Toro and Zhao). (Received August 12, 2021)