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Christoph Haberl* (christoph.haberl@tuwien.ac.at), Institut f. Diskrete Mathematik und Geometrie, Wiedner Hauptstrasse 8-10/104, 1040 Vienna, Austria. *Valuations and L_p -radial addition.*

Characterizing star body valued valuations gives rise to analogues of the intersection body operator within the dual L_p Brunn-Minkowski theory. The resulting operators are closely related to L_p centroid bodies and the generalized Minkowski-Funk transform. We discuss properties of these operators and compare them with the intersection body operator. (Received February 22, 2007)