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Atomic decomposition of weighted local Hardy spaces $h_p^\omega$. (Chinese. English summary)

Summary: In this paper, the discrete weighted local Hardy space $h_p^\omega$ is defined, and its atomic decomposition is obtained by discrete Calderón identity.

MSC:
30H10 Hardy spaces
42B30 $H^p$-spaces

Keywords:
weighted local Hardy spaces; Calderón identity; almost orthogonality estimates; atomic decomposition