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Local Fourier Bases and Ultramodulation Spaces



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**Abstract:** It was proved that local Fourier bases are unconditional bases for modulation spaces  $M_{p,q}^w$ . We prove that the local Fourier bases are unconditional bases for ultramodulation spaces  $M_p^{w,\gamma} = M_{p,p}^{w,\gamma}$ , where  $0 < p < \infty$  and  $w_\gamma = e^{s|x|^\gamma}$ ,  $s > 0$ ,  $\gamma \in (0,1)$ ,  $x \in \mathbb{R}$ .



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