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与例外函数列相关的正规族

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Normal families on sequence of omitted functions

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摘要 设~$\{f_{n}\}$~是区域~D~内的亚纯函数列,~其零点的重级均~≥ 3, 且均仅有一个重级极点. ~$\{h_{n}\}$~是~D~内的亚纯函数列,~且~$h_{n}\Rightarrow h$~于~D, $h \not \equiv \infty, h \ne 0$. 若~$f'_{n}\ne h_{n}$, 则~$\{f_{n}\}$~在~$D$~内正规.

关键词： 亚纯函数   正规族   例外函数列

Abstract： Let~$\{f_{n}\}$~be a sequence of meromorphic functions on a domain~D,~all of whose zeros have multiplicity at least $ 3$,and each of which has a multiple pole. Let $\{h_{n}\}$~be a sequence of meromorphic functions on~D, such that~$\{h_{n}\}$~converges spherically locally uniformly to a function~h which is meromorphic and zero-free on D. If~$f'_{n}\ne h_{n}$, then~$\{f_{n}\}$~is normal on~D.

Key words： meromorphic function   normal family   sequence of omitted functions

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