

## 半群上条件正定函数的扩张

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**摘要** 讨论半群上条件正定函数的扩张问题. 得到一个扩张定理. 作为应用, 得到有界扩张定理和 Pontryagin 空间上量子力学的一个基本定理.

**关键词** [条件正定型, 扩张, Pontryagin 空间.](#)

**分类号** [46C20, 47B50](#)

## Dilations of Conditional Positive Definite Functions on Semi-Groups

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**Abstract** In this paper, problems of dilations of conditional positive definite functions on semi-groups are studied, and a dilation theorem on conditional positive definite functions on semi-groups are obtained. As applications, dilation and bounded dilation of conditional positive definite functions on semi-groups are studied. Finally a fundamental theorem for quantum mechanics on Pontryagin space is proved.

**Key words** [Conditional positive definite dilations](#) [Pontryagin spaces.](#)

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