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## Quasi Sure Product Variation of two Parameter Smooth Martingales on the Wiener Space

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**摘要** In this paper, we prove that the process of product variation of a two-parameter smooth martingale admits an  $\infty$  modification, which can be constructed as the quasi-sure limit of sum of the corresponding product variation.

**关键词** [quasi-sure](#)  [\$\infty\$ -modification](#) [smooth martingale](#) [product variation](#) [Kolmogorov's criterion](#)

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## Quasi Sure Product Variation of two Parameter Smooth Martingales on the Wiener Space

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**Abstract** In this paper, we prove that the process of product variation of a two-parameter smooth martingale admits an  $\infty$  modification, which can be constructed as the quasi-sure limit of sum of the corresponding product variation.

**Key words** [quasi-sure](#)  [\$\infty\$ -modification](#) [smooth martingale](#) [product variation](#) [Kolmogorov's criterion](#)

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