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R&D投资结构增长效应及最优基础研究强度

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Effects of R&D investment structure on growth and optimal intensity of basic research

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摘要 针对以往研究中只关注R&D投资总量而忽视R&D投资结构和基础研究强度的缺陷,修正MRW模型,将R&D投资分解为基础研究和非基础研究,构建了R&D投资结构的内生经济增长模型,使用中国30省市自治区1998-2010年的面板数据,实证分析了R&D投资结构对地区经济增长的影响。研究表明,基础研究与非基础研究的占比提高1%,经济增长上升0.08%-0.12%,R&D投资结构对经济增长的影响重要。为推动经济增长,我国在提高R&D投资的同时,应加大基础研究的投入力度,优化其在R&D中的占比,以实现R&D投资的最优配置。

关键词: [基础研究](#) [R&D](#) [R&D投资结构](#) [内生增长](#)

Abstract: With respect to the defect of previous study that attention has only been given to the total amount of the R&D investment but not to the R&D investment structure and the basic research intensity, the paper sets up an endogenous economic growth model through revising the MRW model and decomposing R&D investment into the basic research and the non-basic research, and examines empirically the effects of R&D investment structure on the regional economic growth using the data of 30 provinces, municipalities and autonomous regions in China from 1998 to 2010. The study results show that the proportion between the basic research and the non-basic research increases by 1%, the economic growth rises by 0.08%-0.12%, and the R&D investment structure plays an important role on the economic growth. To promote the economic growth, while increasing its R&D investment, China should increase the basic research investment and optimize its

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share in the R&D to achieve the optimal configuration of the R&D.

Keywords: [basic research](#) [R&D](#) [R&D investment structure](#)
[endogenous growth](#)

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