GCOE　国際会議出席報告書（外国旅費用）T1212

<div align="right">拠点リーダー　川合　光　殿</div>

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発表題名	Hawking-Moss solution in Massive Gravity
著者名	Ying-li Zhang, Ryo Saito and Misao Sasaki
会議名称 ・開催期間	The Thirteenth Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation, and Relativistic Field Theory 自　2012　年　7月　1日　　〜　　至　2012　年　7月　7　日
開催地（国、市）	Sweden, Stockholm
出張期間	自　2012　年　6月30日　　〜　　至　2012 年　7月　8日
国別参加者数	65 from Japan, 80 from USA, 50 from UK, 45 from Sweden,45 from Russia, 40 from Brazil, 25 from Spain, 1039 in total

発表内容、聴衆の反応、質疑応答、その他について簡潔に記述してください。

発表内容:（口頭発表）Recently, extension of the gravity theory to a nonlinear massive one attracts much attention. Among all the relevant topics associated with this massive theory, one of the most interesting topic is whether there exists a natural mechanism to go from a massless gravity to a massive one. To probe this possibility, as the first step, we introduce a minimally coupling tunneling field into the action of massive gravity and probe its consequences. It is found that the Hawking-Moss (HW) solution can be either larger, smaller or equal to the standard one due to the appearance of parameters associated with massive terms in the nonlinear massive action. Also we found that the Colemann-DeLuccia solution in our model has a smaller value of the action than the one of HW solution.

聴衆の反応: After my talk, four researchers discussed with me on my topic. They asked me some details and the further plans on it. Also they showed great interest on this tunneling calculations in massive gravity.

質疑応答: Due to the limited time in my talk, one question is only allowed to be raised. The question is about the result in the massless limit. I showed our calculations in this situation and told him that in this case, one of the branches reduced to the standard result while another branch will not.