

GCOE 国際会議出席報告書 (外国旅費用)

拠点リーダー 川合 光 殿

(ふりがな) 氏 名	Jewariya Mukesh	所属・職名	指導教員名 (院生の場合)
		光物性研究室	永井 正也
Tel,Fax e-mail	jewariya.mukesh@scphys.kyoto-u.ac.jp		
発表題名	Terahertz pulse generation beyond excitation pulse limitation by χ^2 cascaded processes		
著者名	M. Nagai , <u>M. Jewariya</u>, Y. Ichikawa, H. Ohtake, T. Sugiura, and K. Tanaka		
会議名称 ・開催期間	The 34 th International conference on infrared, Millimeter, and Terahertz waves (IRMMW-THz) 2009 自 2009 年 09 月 21 日 ~ 至 2009 年 09 月 25 日		
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国別参加者数	参加者 600 名以上(うち日本 120 名、韓国 100 名、欧州 50 名、アメリカ 30 名)		
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。 (口頭発表・ポスター発表の別も文中に明記すること。)			
<p>We proposed a novel THz generation technique beyond the limitation of input optical pulse width, based on phase modulation via cascade χ^2 process. When intense THz electric field is generated by optical rectification lies in electro-optic crystal, emitted THz field gives phase modulation to the optical excitation pulse. It causes the narrowing of excitation pulse and consequently gives rise to the enhancement of conversion efficiency.</p> <p>I have got a chance to make an oral presentation about my recent research work. It was a great experience to deliver an oral talk 1st time in such a conference and with a huge number of audience. Many peoples are impressed by my work and I have got a lot of response from the audience. People are very impressed that we achieved such a ultra-high power by nonlinear methods. Many peoples are amazing by seeing a intense terahertz pulse which is comparable to atomic field. People asked me the generation process and key points about how to generate such a high power. Later I joined a post conference containing a lecturer series on special topics on terahertz. It was really nice for me to understand my subject and research closely.</p> <p>It was really a great experience and I hope such kind of events and conferences really enhance our skills. I would like to thank GCOE for their kind support for attending this conference.</p>			