

18th RAP Seminar

The 18th Seminar on RIKEN Center for Advanced Photonics

Language: Japanese

Date : **Dec.19 (Fri), 2014, 16:00 -17:00**

Location : **Cooperation Center, 3F, W319, Wako Campus, RIKEN**
(理研 和光キャンパス 研究交流棟3階会議室 W319)

Title: **New Era Brought by Computing: Magic Ball, Cancer Treatment, Blood flow, Car Manufacturing**

魔球、ガン治療、血流、自動車 - コンピュータが切り拓く新次元

Speaker : **Dr. Ryutaro HIMENO**

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Computational simulation has been widely spread and changing our lives. For example, in sports application, pitching form in baseball can be analyzed and optimized on computer. Computer simulation predicts a new magic ball. In the medical applications, computer simulation is used to design ultrasound cancer treatment equipment and also treatment plan using heavy ion beam. Surgical operation simulation using endoscope becomes possible before real operation. In industrial manufacturing application, computer simulation of automotive design becomes essential tool to reduce design cycle. Japanese automotive companies effectively applied computer simulation to their design and increased competitiveness in the world.

Concerning computed results on K computer, we are getting great progress in the life science, disaster prevention and etc. I will show these progresses.



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