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===== 物理学教室 =====  
===== 物性コロキウム ご案内 =====  
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日時：  
2021年7月20日（火）16:20-17:50  
(20 July, 2021(Tue.) 16:20-17:50)

場所：  
ZOOMによるオンラインセミナー  
(On-line seminar using ZOOM)  
※前日にアナウンスします。  
(To be announced the day before the colloquium)

講師：  
京都大学大学院理学研究科物理学専攻  
教授 山本 潤 氏  
(Prof. Jun Yamamoto, Department of Physics, Kyoto University)

題目：  
ソフトマターの構造とダイナミクスの階層性  
(Hierarchical Structure and Dynamics of Soft Matter)

要旨：  
Soft matter has an intermediate state between liquid and solid, and many familiar materials belong to soft matter. Structures and dynamics are constructed in a multi-scale hierarchy in space-time to show new types of phases with novel symmetry and specific dynamics and transport phenomena with dynamically coupled collective modes. As a result, new nano mechanics such as toughness, suppleness, and lubrication can be realized. By understanding the basic principles of designing the structure and physical properties of soft matter, we will understand new basic physics of science and apply it to various fields developing display/optics devices, functionalized, foods, pharmaceuticals, and bio-related materials.

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