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EINLADUNG zum IFP-SEMINAR

3D printed polymer-bonded magnets

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Host:	Christoph Eisenmenger-Sittner
Termin:	Mittwoch, 18. Oktober 2017, 16:00 Uhr
Ort:	Institut für Festkörperphysik, TU Wien
	Wiedner Hauptstraße 8-10, 1040 Wien
	Seminarraum DC rot 07 (roter Bereich, 7. OG)

Abstract:

Polymer bonded magnets enable the manufacturing of complex shapes and features by design flexibility regarding shape and magnetizing structure. Recently it was shown that an end-user 3D printer can be used to print polymer bonded NdFeB magnets with a specific complex shape [1]. By means of inverse stray field simulations, a specific external field of a magnetic system can be designed and manufactured instantly by the help of the additive manufacturing procedure [2, 3].

[1] C. Huber et al., Appl. Phys. Lett. 109 (2016):162401.

[2] C. Huber et al., J. Appl. Phys. 122, (2017):053904.

[3] C. Huber et al., Sci. Rep. 7, (2017):9419.