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# The Hong Kong University of Science and Technology

## Department of Mathematics

## Seminar on PDE

# Interior curvature estimate for scalar curvature equation

**By**

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**Abstract**

Motived by the Weyl problem, Heinz proved an apriori interior curvature estimate for the Monge-Ampere equation in dimension two. But this type of estimate is false by Pogorelov's count-example for higher dimensional Monge-Ampere equations. Joint with Professor Pengfei Guan, we generalize Heinz's estimate in the higher dimensional isometric immersed hypersurfaces. And we also proved an interior estimate for prescribed scalar curvature equations under some convexity condition.

**Date : : Monday, 16 April 2018**

**Time: : 3:00 p.m. – 4:00 p.m.**

**Venue: : Room 3472, Academic Building HKUST (near Lifts 25&26)**

***All are welcome!***