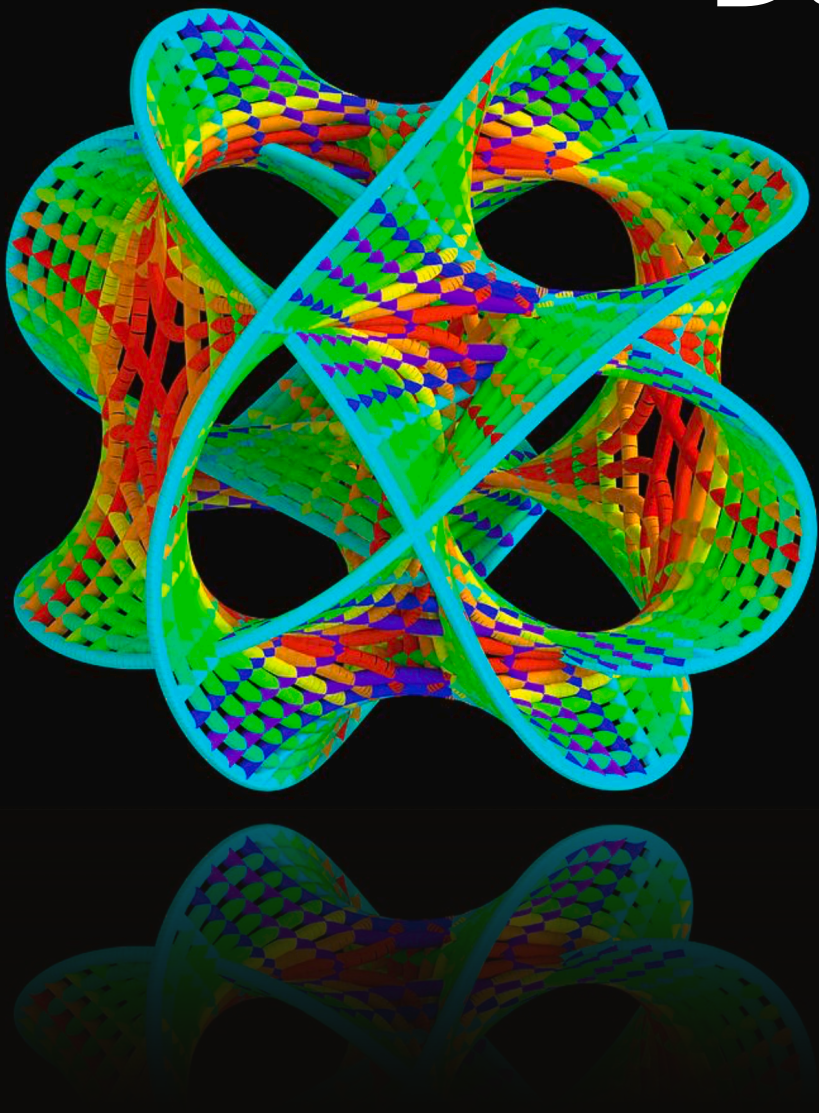


“SOLITONS, MONOPOLES AND DUALITY”



Prof. Sergey Ketov

Tokyo Metropolitan University & IPMU



March, 2020



6th Floor Gem Building,
Faculty of Science,
Chulalongkorn University

Schedule

- (1) **Non-perturbative versus perturbative (Introduction)**, on Wed of March 4th, 14:30~
- (2) **Basic examples of duality in field theory: sine-Gordon solitons and Thirring model**, on Thu of March 5th, 14:30~
- (3) **Dirac monopole and electric-magnetic duality**, on Fri of March 6th, 14:30~
- (4) **t'Hooft-Polyakov monopole in non-abelian gauge theories**, on Mon of March 9th, 14:30~
- (5) **Bogolyubov-Prasad-Sommerfeld bound, Witten effect and S-duality**, on Tue of March 10th, 14:30~
- (6) **N=1, N=2 and N=4 supersymmetric Yang-Mills theories in 4 dimensions**, on Wed of March 11th, 14:30~

Break for a week

- (7) **Classical and quantum moduli space of supersymmetric Yang-Mills theories**, on Wed of March 18th, 14:30~
- (8) **Renormalization and low-energy effective action**, on Thu of March 19th, 14:30~
- (9) **Duality and elliptic curve in Seiberg-Witten theory**, on Fri of March 20th, 14:30~
- (10) **Non-abelian confinement**, on Mon of March 23rd, 14:30~
- (11) **Born-Infeld non-linear electrodynamics and its supersymmetric extensions**, on Tue of March 24th, 14:30~
- (12) **Dilaton, axion and $SL(2, \mathbb{R})$ duality**, on March 25th, 14:30~