

YONSEI Math-CSE Colloquium

An Introduction to Collisional and Relaxational Kinetic Equations

윤 석 배
(성균관대학교)

In the first half of this talk, we overview the historical development of the kinetic theory of gases. Our focus will be on the development of the notion of "entropy". How it was coined in the thermodynamics, how Boltzmann interpreted it statistically, and finally, how he was able to actually prove it in the case of rarefied gases. Then we take a look at the kinetic equations that Boltzmann derived to explain the evolution of gaseous systems, and its model equation called BGK model. In the second half, I will talk about my recent research on the ellipsoidal BGK model with correct Prandtl number.

2020. 10. 8. (목) 17 : 00

** [온라인 강연] 접속 방법은 추후 별도로 공지.

주최: 4단계 BK21 수리과학 및 계산 교육연구단 (연세대학교 수학과산학부)
문의: 홍한솔 교수 hansolhong@yonsei.ac.kr