

# 國立中山大學應用數學系 學術演講

講者：彭勇寧教授 (NCKU)  
講題：A glance of representation theory of Yangian  
時間：2023/05/25 (Thursday) 16:10 ~ 17:00  
地點：理 SC 4009-0 教室  
茶會：15:30

## Abstract

Given a simple or reductive Lie algebra, the associated Yangian is a certain non-commutative Hopf algebra which contains the universal enveloping algebra as a subalgebra. Yangians are important example of quantum groups, providing rational solutions of the Yang-Baxter equation. Other than research values in mathematics, there are various applications of Yangian in statistical mechanics and mathematical physics.

In this talk, we will focus on the Yangian associated to the general linear Lie algebra. We will recall its definition and some interesting properties, and then particularly some classical results about its representation theory, which can be treated as a generalization of corresponding results for the associated Lie algebra. Finally we will mention some recent results for the Yangian associated to the general linear Lie superalgebra, and roughly describe some connection to other research topics.

敬請公告！歡迎參加！

應用數學系：<http://math.nsysu.edu.tw>

校園地圖：[http://math.nsysu.edu.tw/var/file/183/1183/img/779/nsysu\\_math\\_map.jpg](http://math.nsysu.edu.tw/var/file/183/1183/img/779/nsysu_math_map.jpg)

交通資訊：<https://www.nsysu.edu.tw/p/412-1000-4132.php?Lang=zh-tw>



應用數學系



校園地圖



交通資訊