一、日程表

日期	时间	事项	地点
3月29日	全天	登记入住、注册报到：会议签到、领取材料	国际学术交流中心
	18:30	晚餐	
3月30日	9:30	厦门大学"数学与智力玩具--Ringel 夫妇收藏"博物馆开馆活动	图书馆五楼
	10:15	集体合影	南门台阶
	10:30	Ringel 教授"摄影棚悖论"南强学术讲座	图书馆小报告厅
	12:00	午餐	教工餐厅二楼
	14:00-14:50	陈小伍（中国科技大学） Representabiltiy and autoequivalence groups	图书馆二楼光影坊
	15:00-15:50	陈健敏（厦门大学） Frobenius-Perron theory of endofunctors	
	15:50-16:10	茶歇	图书馆二楼
	16:10-17:00	徐帆（清华大学） Derived Hall algebras and quantum cluster algebras	图书馆二楼光影坊
	17:00-18:00	参观校园	
	18:00	宾馆门口集中，前往餐厅用餐	餐厅
3月31日	9:00-9:50	周宇（清华大学） The derived category of a decorated marked surface	图书馆二楼光影坊
	10:00-10:50	黄华林（华侨大学） Sums of squares and representations	
	11:00	午餐	
4月1日		离会	

二、学术报告题目与摘要

Representabiltiy and autoequivalence groups

陈小伍（中国科技大学）

Abstract: We will recall a finite version of the Brown representability theorem. Following Ballard, we will apply it to the study of the bounded derived category of a module category. In particular, it turns out that the autoequivalence groups of the bounded derived category and of the bounded homotopy category of projective modules are isomorphic.

Frobenius-Perron theory of endofunctors

陈健敏（厦门大学）

Abstract: In this talk, I will introduce the Frobenius-Perron dimension and several Frobenius-Perron type invariants of an endofunctor of a category, give some basic properties of them and apply them to study the derived category of coherent sheaves on projective schemes and modules over finite dimensional algebras.

Derived Hall algebras and quantum cluster algebras

徐帆（清华大学）

Abstract: In this talk, we construct a surjective algebra homomorphism from some subalgebra of an extended and twisted derived Hall algebra to the corresponding quantum cluster algebra. When the underlying quiver is of Dynkin type, the algebra homorphism is categorified via Nakajima graded quiver variety. This is joint work with Ming Ding and Hai-Cheng Zhang.

The derived category of a decorated marked surface

周宇（清华大学）

Abstract: We study the Ginzburg dg algebra A_T associated to the quiver with potential arising from a triangulation T of a decorated marked surface. We show that there is a canonical way to identify all finite dimensional derived categories of A_T from the same surface. As an application, we show that the spherical twist group associated to the finite dimensional derived category acts faithfully on its space of stability conditions. This is based on joint work with A. B. Aslak and Y. Qiu.

Sums of squares and representations

黄华林（华侨大学）

Abstract: It is well-known that the beautiful formulas for products of sums of squares are closely related to representations of groups and algebras. In this talk we will recall some facts about this interesting interaction and report some progress of sums of squares formulas obtained by twisted group algebras.