



北京大学哲学系“逻辑·语言·认知”研究中心

Center for Logic, Language and Cognition, Department of Philosophy, Peking University

## A BRIEF INTRODUCTION TO JUSTIFICATION LOGIC

2015年秋季学期逻辑前沿问题讨论班

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**题 目:** A Brief Introduction to Justification Logic

**主 讲:** 俞珺华博士

**简 介:** 师从 Sergei N. Artemov, 2014 年以论文 *Self-referentiality in constructive semantics of intuitionistic and modal logics* 于纽约市立大学研究生院 (Graduate Center, City University of New York) 计算机科学系逻辑学专业获得 PHD。目前学术兴趣主要集中在: Justification logic; Realization methods, self-referentiality; Structural proof theory; (sub/super) Intuitionistic logic; Modal embeddings, Visser's BPL and FPL。现任职于清华大学哲学系。

**主 持:** 王彦晶副教授

**时 间:** 12 月 8 日星期二 15:10-18:00

**地 点:** 北京大学三教 506

**摘 要:** Justification logic is an explicit version of modal logic. In justification logic, instead of  $\Box\varphi$ , we have  $t:\varphi$ , with a intuitive meaning that  $t$  is a justification of  $\varphi$ , where  $t$  is a term with its structure. After a glance of its history, we will present the logic formally, and talk about two indispensable features, "Fitting completeness" and "Realization". Some selected topics will also be mentioned, including mixed-systems of modal and justification logics, self-referentiality in realizations, possible philosophical applications, etc..