

数学与系统科学研究院

计算数学所学术报告

报告人: **Dr. Eamon Zhang**

(*PEClouds*)

报告题目:

**XXSIM: A General Purpose
Reservoir Simulator**

邀请人: 张晨松 副研究员

报告时间: 2021 年 5 月 12 日 (周三)

下午 13:00-15:00

报告地点: 科技综合楼三层

311 报告厅

Abstract:

XXSim is a general-purpose reservoir model based on the equation of state (EOS) and K-values (thermal equilibrium constant for each component). In terms of basic functions, XXSim is not particularly different from other commercial simulators. The main features of XXSim are the most advanced thermal and non-thermal recovery models equipped with fully coupled EOS two-phase (EOS2P), three phase (EOS3P) flashes and separators. The three-phase flash algorithm, uses the THREE-PHASE (Aqueous Oleic, Vapor) equation of state to calculate the solubility of each component in all three phases, or the number of moles of each component in all three phase. For example, carbon dioxide (CO₂) can co-exist simultaneously in oil, aqueous and gas phases.

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