

סמינר מדעי היסוד
יום ראשון 30.11.2014 בשעה 13:00-13:50 בפיקוס 203

פרופ' הלל טל-עזר
Prof. Hillel Tal-Ezer
Academic College of Tel-Aviv Yaffo

Numerical Methods for complex Black and Scholes equations

תקציר

Black and Scholes equations are time dependent partial differential equations used for option pricing. There are cases (e.g. linear European options) where an explicit solution is available. On the other hand there are complex situations where an explicit solution is not feasible and we have to resort to numerical solution. The basic algorithms are based on applying finite differences and standard time marching techniques (e.g. Crank Nicolson, Adi, Euler). In this talk we would like to describe new algorithm for approximating the evolution operator. The algorithm is based on Krylov approach. It results in a highly efficient algorithm.

מתאמים: פרופ' י. גולדמן, ד"ר ש. מיברג, פרופ' י. סטאנצ'סקו
ופרופ' ד. פישלוב
אפקה - המכללה האקדמית להנדסה בתל-אביב, מבצע קדש 38, תל-אביב