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Source | Model Presentation

purejump1d

1 Description

We consider the following market model:

$$dS_t = rS_t dt + \sigma S_{t-}(\beta_{N_{t-}} dN_t - \nu dt),$$

where $(N_t)_{t\in\mathbb{R}_+}$ is a Poisson process with constant intensity λ , $(\beta_k)_{k\in\mathbb{N}}$ is a sequence of random variables independent of $(N_t)_{t\in\mathbb{R}_+}$, and r represents the interest rate.

2 Code Implementation

```
#ifndef _PUREJUMP1D_H
#define _PUREJUMP1D_H

#include "optype.h"
#include "var.h"

#define TYPEMOD PUREJUMP1D

/*1D Pure Jump World*/
typedef struct TYPEMOD{
   VAR T;
   VAR SO;
   VAR Mu;
   VAR Sigma;
   /*VAR Divid;*/
   VAR R;
   VAR Beta;
   VAR Nu;
```

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} TYPEMOD;

#endif