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## ap\_antonelliscarlatti\_stein

This model is given by,

$$dS_t = rS_t dt + \sqrt{v_t} S_t dW_t^1,$$
  
$$dv_t = k(\theta - v_t) dt + \sigma \sqrt{v_t} dW_t^2,$$

where  $W^1$  and  $W^2$  are two correlated brownian motions with  $\langle W^1, W^2 \rangle_t = \rho t$ , and k,  $\theta$  and  $\sigma$  are constants. Description of the algorithm is given in there

## References