Démonstration Duft d'un actif étrusce Me sous Q dst = u, st 1t + vs St dwt dxt=mxxtdt+vxxtdWt 1 Dév. produit stochoustique  $d(S_t X_t) = S_t dX_t + X_t dS_t + d(S_t X_t)$ D 2 d St Xt 1) Dév. Le dague time  $OS_t \cdot dX_t = S_t \cdot \left( u_x X_t dt + v_x X_t dw_t^2 \right) = X_t \cdot S_t \cdot \left( u_x dt + v_x dw_t^2 \right)$  $(2) X_{t} = X_{t} - (u_{s} S_{t} + V_{t} + V_{s} S_{t} + V_{t}) = X_{t} S_{t} - (u_{s} A_{t} + V_{s} A_{t} + V_{t})$  $3) d(S_t^J X_t) = (\nabla_S S_t^J dW_t) (\nabla_X X_t dW_t) = \nabla_S \nabla_X X_t S_t^J dW_t dW_t^*$ agle de calc sto: d (A, Bt) = proleuks kesteenes dW p. dt 3) Comsolidation.  $\mathcal{L}(\mathcal{S}(X_t) = X_t \mathcal{S}(\mathcal{U}_t) + X_t \mathcal{S}(\mathcal{U}_s) + X_t \mathcal{S}(\mathcal{U}_s) + X_t \mathcal{S}(\mathcal{U}_s)$ + P. Vs. St. VXXt dt d(SEXE)=XESE (MX+MS+PVSVX)H+VX dWE+VS dWE duft allatoise le Molele impose un drift de 1/2 sous la mesure-risga rentre.

4 Masage sous Q: a(StXt)=XtStINAT+VXAWE+VSAWE) Donc on a:  $u = u + u + \rho$ Con sait rue un= 11-11. 1d = [11 - y] + M + P V3 V2  $M_s = N_f - \rho \nabla_S \nabla_X$