SF2701: Homework 2 Guide to the Quantlab workspace

This document is intended to assist you with the Quantlab workspace used in the assignment on forward rates, providing short descriptions of the different parameters and data fields. Figure 1 shows a screen shot of the workspace as it looks when you open it the for the first time. All your actions will be



Figure 1: The workspace.

performed in the "Forwards, spot and rates" window, shown in Figure 2. The selection in eq_fwd_curve determines, by underlying, which forward contracts that will be used. For example, the default option TLSN:XSTO:FORWARDS selects forward contracts on the underlying stock Telia Sonera. In rate_curve the interest rate curve is selected (use the default: SEKDEPO). In the tab d, the current date is selected. The tabs qs and qs_rate determine which quotes that are used (use the default: Mid_db). After making your selection, clicking "Recalc" will update the table and the graphs. In the window "Forwards, spot

and rates", you will find a table containing all the data needed to complete this exercise. In each row, you will find the price, fwd_price, and time to maturity in years, fwd_year_mat, for the forward fwd_name with expiry date fwd_expiry. In the column rate_at_expiry the interest rates at expiry are given. The last column, equity_spot, lists the spot price of the underlying stock. Note that all or parts of the column fwd_price might be empty if forward contract is not traded on the market. In the window "Fwds vs expiry date" the selected forward contracts and the spot price are plotted. In the window "Rate vs date" the selected interest rates are plotted.

forwards - 1 fwd_name fwd_expiry fwd_year rate_at fwd_price equity_s eq_fwd TLSN:XSTO:FORWARDS TLSN6M 2016-01-15 0.03 -0.44 39.92 39.88 rate_cu SEKDEPO TLSN6M 2016-02-19 0.12 -0.52 39.85 qs Mid_db TLSN6R 2016-06-17 0.45 -0.32 36.83 TLSN6U 2016-09-16 0.70 -0.23 36.84 TLSN6X 2016-12-16 0.95 -0.20 36.85 Recalc Recalc Recalc Recalc -0.19 -0.19 -0.19			F	orwards, spo	ot and rates				_ D X
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Recalc	Recalc			TLSN8X	2018-12-21	2,96	-0,19		

Figure 2: A zoomed view on the "Forwards, spot and rates" window. Note that some price-boxes are empty since there are no listed prices for these contracts.