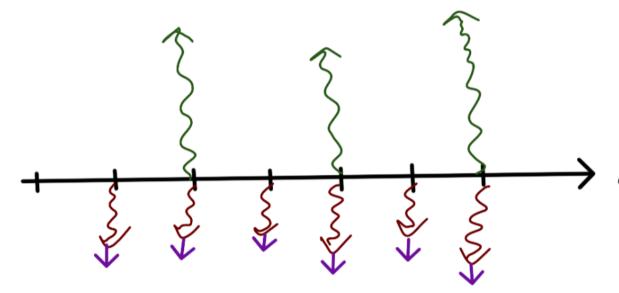


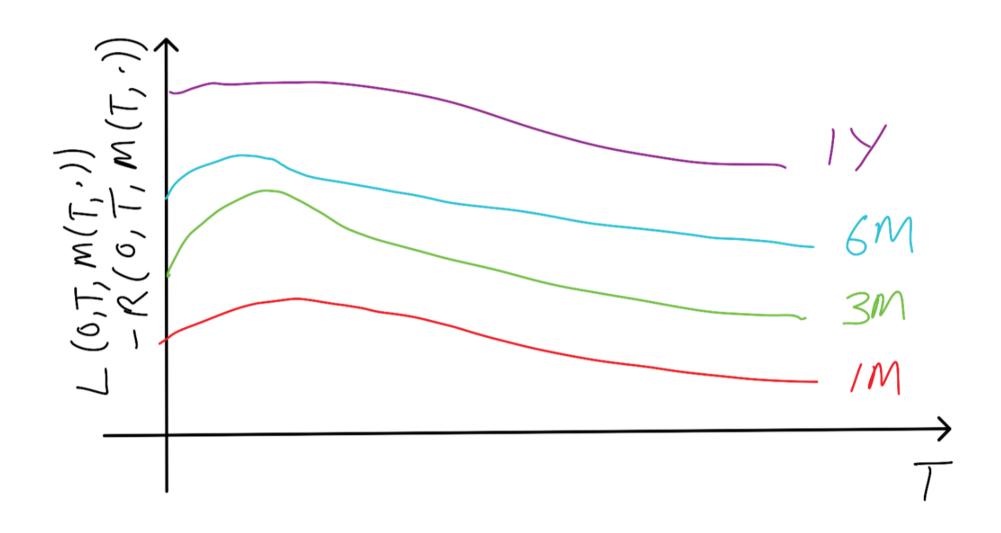
## BOOTSTRAP ALGO. & PARAM. Instrument Tenor Quote Timeline 0/N -76p to >HKt, EONIA 015 Maturity dates used for knot times (Act/365): $0=t_0 < t_1 < t_2 < t_3 < \cdots < t_r < \cdots$

## LIBOR Basis Swaps



receive LIBOR of longer tenor, e.g. 6M cashflow timeline pay LIBOR of shorter tenor, e.g. 3M plus a fixed spread

## Multiple LIBOR term structures, one for each LIBOR tenor



If we represent LIBOR term structure with discount factors the forward LIBOR is recovered with  $1+2L(t,T,T+z) = \frac{P(t,T)}{P(t,T+z)}$ 

as we know from arbitrage-free pricing arguments under matched discounting. But this need not hold for LIBOR as it now operates under mis-matched OIS discounting.

Thus we would artificially constrain the possible LIBOR term structure T >> L(t,T,T+z) to be homogeneous if we insist on representing it with discount factors, zero rates, or instantaneous forward rates.

$$g(T,M) = h(M) - h(T)$$