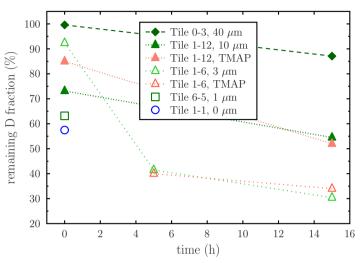
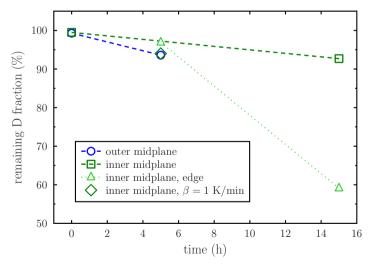
## EXP/P6-2: Long-term fuel retention and release in JET ITER-Like Wall at ITER-relevant baking temperatures



- Fuel removal efficiency in JET-ILW studied at ITERrelevant baking temperatures
  - JET-ILW samples from W divertor and Be main chamber
  - Baking temperatures for W divertor 350°C, Be limiters 240°C
  - Annealing times 0, 5 and 15 hrs
  - Data collection with TDS
  - Divertor computational analysis with TMAP7 simulations
- Deposits in the W divertor have an increasing effect to the remaining fuel above baking temperature. After 15 hrs bake, highest remaining fuel fractions 54 and 87 % with deposit thicknesses 10 and 40 µm, respectively. Be deposits with some C, O.
- TMAP7 in good agreement with TDS of divertor deposits. Desorption maxima fitted with activation energies 0.75-0.8, 1.1 and 1.4 eV.
- Deposit-free bulk Be limiter samples with high remaining fraction: >90 % remained after 15 hrs bake. Remained fraction ~60 % only on the edge of the limiter.



Remaining fuel fractions in W divertor deposits after baking at 350°C.



Remaining fuel fractions in Be limiters after baking at 240°C.