



Figure 4: A schematic depiction of a typical respiration curve and the parameters estimated by **opm**. (Growth curves could be described in the same way.) The descriptive curve parameters are  $\lambda$ ,  $\mu$ ,  $A$  and  $AUC$ . Note that many respiration curves, even if representing a clearly positive reaction, do not correspond to this idealised scheme. The parameters can nevertheless be robustly estimated from deviating curves, particularly *via* spline fits (Vaas *et al.* 2012, 2013a).