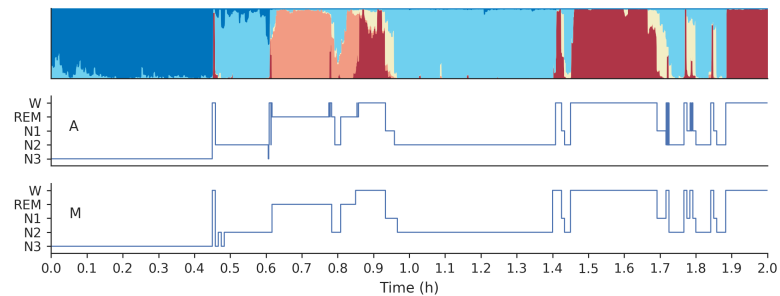
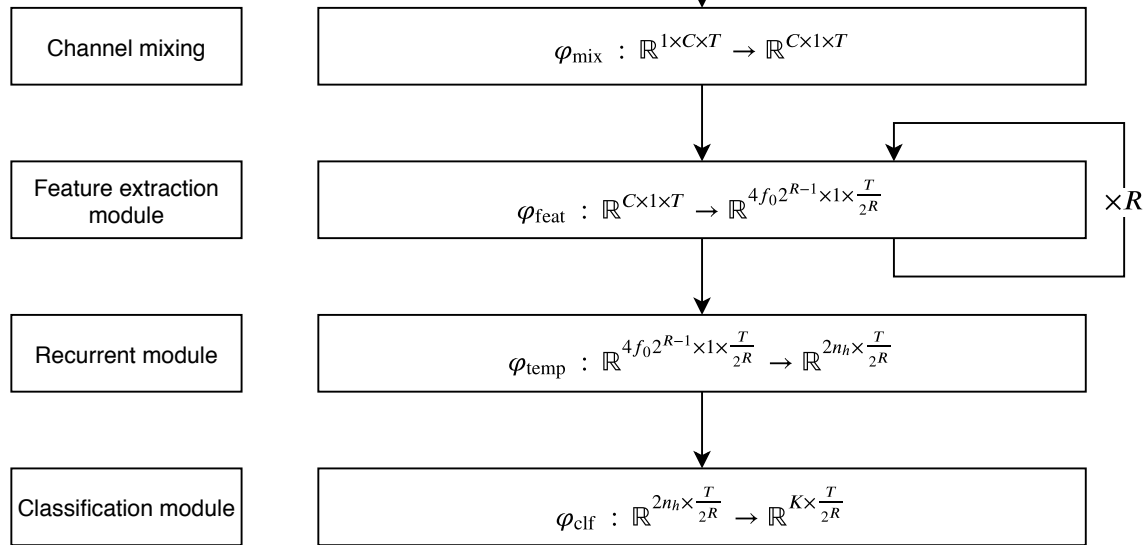
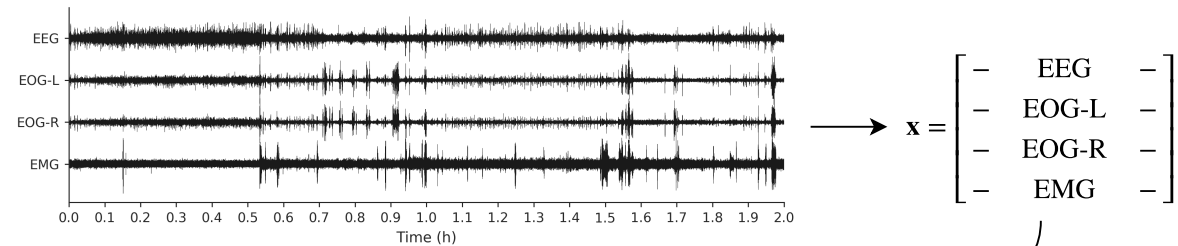


a)



$$\mathbf{y} = \begin{bmatrix} - & \mathbf{p(W)} & - \\ - & \mathbf{p(N1)} & - \\ - & \mathbf{p(N2)} & - \\ - & \mathbf{p(N3)} & - \\ - & \mathbf{p(REM)} & - \end{bmatrix}$$

b)

