

$$\mathbb{A} = \begin{pmatrix} \begin{array}{c|c|c} & \overset{m_1}{\longleftrightarrow} & \overset{m_q}{\longleftrightarrow} \\ \hline A_{1,1} & \cdots & A_{1,q} \\ \hline \vdots & & \vdots \\ \hline A_{p,1} & \cdots & A_{p,q} \\ \hline \end{array} \end{pmatrix}$$

Dimensions:  $n_1$  (rows 1 to  $p$ ),  $n_p$  (rows  $p+1$  to  $n$ ),  $m_1$  (columns 1 to  $q$ ),  $m_q$  (columns  $q+1$  to  $m$ ).

$$\text{et } \mathbb{B} = \begin{pmatrix} \begin{array}{c|c|c} & \overset{s_1}{\longleftrightarrow} & \overset{s_r}{\longleftrightarrow} \\ \hline B_{1,1} & \cdots & B_{1,r} \\ \hline \vdots & & \vdots \\ \hline B_{q,1} & \cdots & B_{q,r} \\ \hline \end{array} \end{pmatrix}$$

Dimensions:  $m_1$  (rows 1 to  $q$ ),  $m_q$  (rows  $q+1$  to  $m$ ),  $s_1$  (columns 1 to  $r$ ),  $s_r$  (columns  $r+1$  to  $s$ ).