



$$\begin{array}{ccc} X & \xrightarrow{f} & Y \\ \varphi \uparrow & & \downarrow \psi \\ X/R & \xleftarrow{\bar{f}} & Y/Q \end{array} \tag{1}$$

$$\begin{array}{ccc} C & & A \xrightarrow{\varphi} \textcolor{red}{B} \\ \langle f_i \rangle_{i \in I} \downarrow \quad \searrow f_i & & \downarrow \Psi \quad \quad \downarrow \Phi \\ \prod_{i \in I} A_i \xrightarrow{\pi_i} A_i & & C \xrightarrow{\Phi} D \end{array}$$

$$\begin{array}{ccc} \textcolor{red}{IR} & \xrightarrow{\textcolor{blue}{f}} & \textcolor{red}{IR} \\ \textcolor{blue}{\Psi} \downarrow & & \downarrow \textcolor{blue}{\Phi} \\ \textcolor{red}{IR} & \xrightarrow{\textcolor{blue}{g}} & \textcolor{red}{IR} \end{array}$$

$$\begin{array}{ccc} \textcolor{red}{IR} & \xrightarrow{\textcolor{blue}{f}} & \textcolor{red}{IR} \\ \textcolor{blue}{\Psi} \downarrow & & \downarrow \textcolor{blue}{\Phi} \\ \textcolor{red}{IR} & \xrightarrow{\textcolor{blue}{g}} & \textcolor{red}{IR} \end{array} \quad \begin{array}{ccc} \mathbb{R} & \xrightarrow{f} & \mathbb{R} \\ \Psi \downarrow & & \downarrow \Phi \\ \mathbb{R} & \xrightarrow{g} & \mathbb{R} \end{array}$$

$\mathbb{R} \, \mathbb{K} \, \mathbb{N} \, \mathbb{Q} \, \lim \, \partial \, \mathcal{L} \, \mathcal{N} \, \mathfrak{B} \, \text{sgn} \, \text{div}$
 $\text{d}x \, \frac{1}{\text{Re}} \, \mathbb{Z} \, \mathbb{C} \, \textcolor{red}{IK} \, \mathbb{Q} \, \mathbb{C} \, \mathbb{Z} \, \textcolor{red}{IN} \, \textcolor{red}{IR}$