

$$\begin{array}{ccccccc}
 X & & A & \xlongequal{\quad} & A & & \\
 & \searrow^{s} & \downarrow & & \downarrow i & & \\
 & & F & \xrightarrow{p'} & E & \longrightarrow & Z \\
 & \searrow^{1_X} & \downarrow \lambda & \square & \downarrow q & & \parallel \\
 & & X & \xrightarrow{q \circ p} & Y & \xrightarrow{\pi} & Z \xrightarrow{\delta} \\
 & & \downarrow 0 & & \downarrow \eta & &
 \end{array}$$

A commutative diagram illustrating a sequence of maps and relationships between objects X, A, F, E, Y, Z . The diagram is organized into three rows of objects. The top row consists of X, A, A . The middle row consists of F, E, Z . The bottom row consists of X, Y, Z . The diagram includes the following maps:

- A curved arrow from X to F labeled s .
- A curved arrow from X to E labeled p .
- A curved arrow from X to X (bottom) labeled 1_X .
- A vertical arrow from A to F .
- A vertical arrow from A to E labeled i .
- A horizontal arrow from F to E labeled p' .
- A horizontal arrow from E to Z .
- A vertical arrow from F to X (bottom) labeled λ .
- A square symbol \square indicating a commutative square between F, E, X (bottom), and Y .
- A vertical arrow from E to Y labeled q .
- A horizontal arrow from X (bottom) to Y labeled $q \circ p$.
- A horizontal arrow from Y to Z labeled π .
- A vertical double arrow from Z (middle) to Z (bottom).
- A horizontal arrow from Z (bottom) to the right labeled δ .
- A vertical arrow from X (bottom) to the bottom labeled 0 .
- A vertical arrow from Y to the bottom labeled η .