

$$X_{\triangleleft \mathbb{F}} + p \underset{=}{X_{\triangleleft \mathbb{F}}} \overset{X/p}{\triangleleft \mathbb{F}} \xleftarrow{X/p} X_{\triangleleft \mathbb{F}} \supset p \overset{X}{\triangleleft \mathbb{F}}$$

$${}_{X/p} \mathfrak{A} = \mathfrak{A} + p \overset{X}{\triangleleft \mathbb{F}}$$

$$\text{irred } p \in X_{\triangleleft \mathbb{F}} \Rightarrow X/p \triangleleft \mathbb{F} \text{ field}$$

$X_{\triangleleft \mathbb{F}}$ principal

$${}_{X/p} \overset{X}{\triangleleft \mathbb{F}} p = 0 + p \overset{X}{\triangleleft \mathbb{F}} \text{ Nst}$$

$$X + p \overset{X}{\triangleleft \mathbb{F}} \in {}_{X/p} p^{-1}(0)$$

$${}^X p = p_i X^i \Rightarrow {}_{X/p} p = {}_{X/p} p_i Y^i = \left(p_i + p \overset{X}{\triangleleft \mathbb{F}} \right) Y^i$$

$$\Rightarrow {}_{X/p} \overset{X}{\triangleleft \mathbb{F}} p = \left(p_i + p \overset{X}{\triangleleft \mathbb{F}} \right) \left(X^i + p \overset{X}{\triangleleft \mathbb{F}} \right) = p_i X^i + p \overset{X}{\triangleleft \mathbb{F}} = p + p \overset{X}{\triangleleft \mathbb{F}} = 0 + p \overset{X}{\triangleleft \mathbb{F}}$$

$X/p \triangleleft \mathbb{F}$ p gene