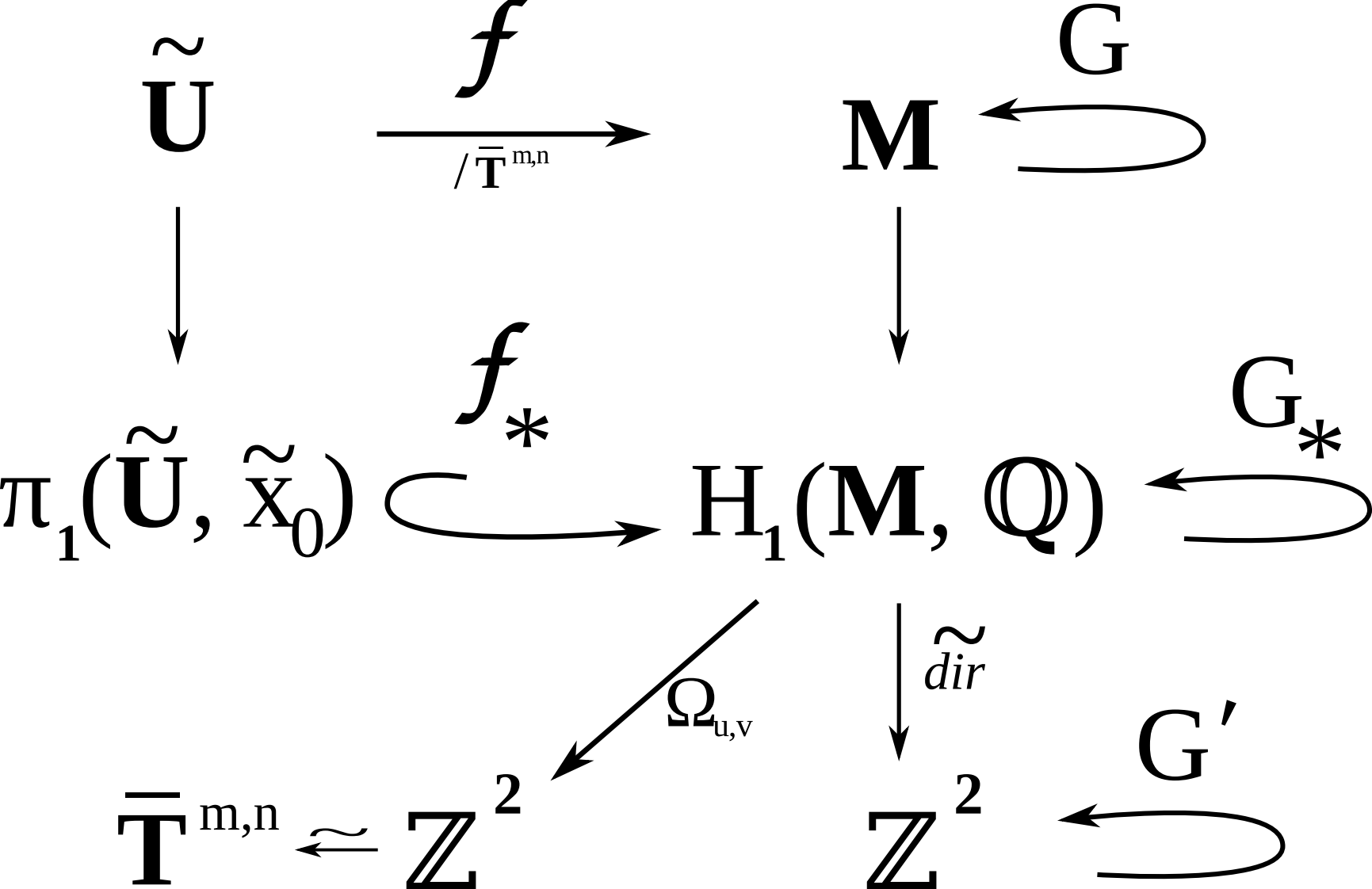
$\tilde{\mathbf{U}}$
f
$/\bar{\mathbf{T}}^{m,n}$
$\mathbf{M}$
G
f_*
$\pi_1(\tilde{\mathbf{U}}, \tilde{x}_0)$
$H_1(\mathbf{M}, \mathbb{Q})$
G_*
$\Omega_{u,v}$
$\tilde{dir}$
$\bar{\mathbf{T}}^{m,n} \simeq \mathbb{Z}^2$
$\mathbb{Z}^2$
G'