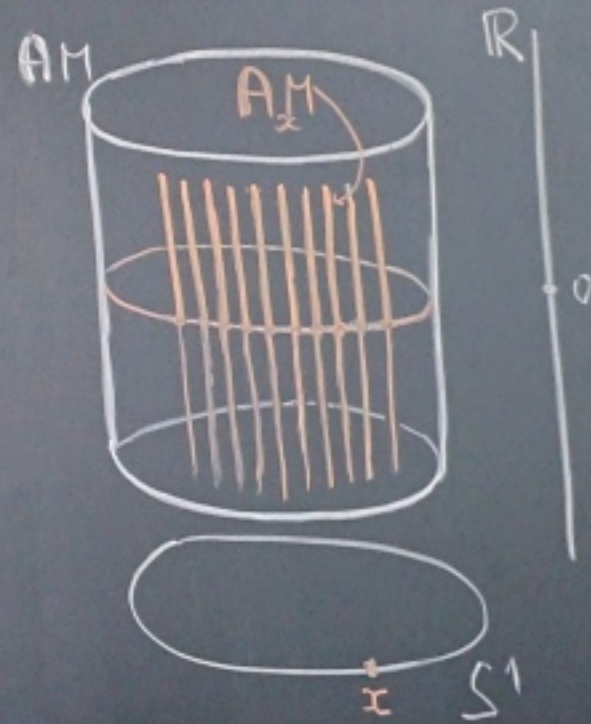


Př: Lineární bundle nad  $S^1$

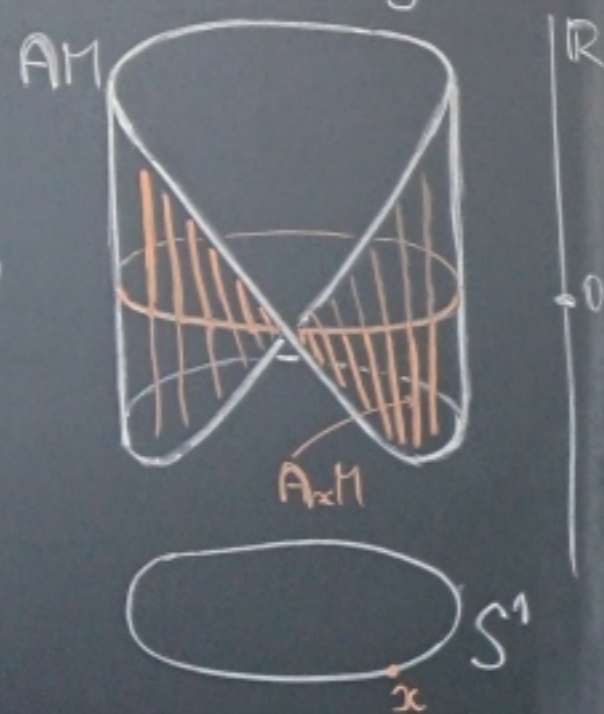
$M = S^1$      $A = \mathbb{R}$

triviální bundle



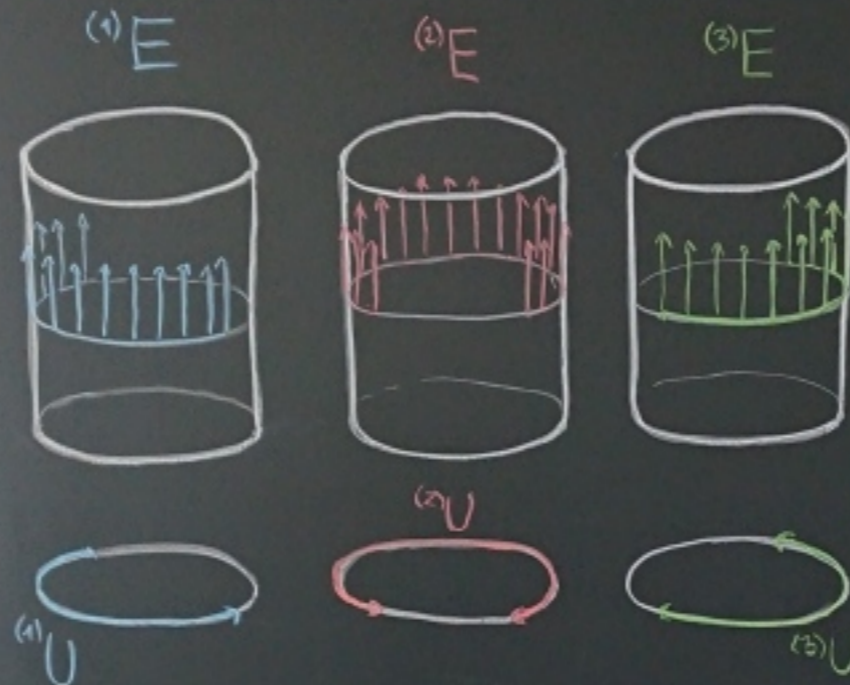
$AM \cong S^1 \times \mathbb{R}$

twistovaná bundle

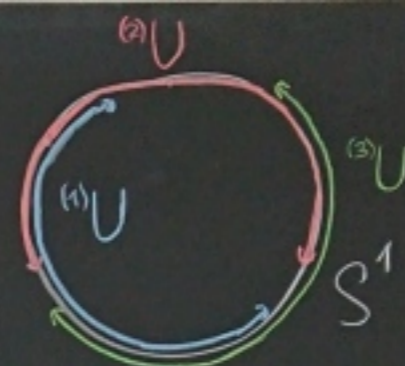


$AM \not\cong S^1 \times \mathbb{R}$

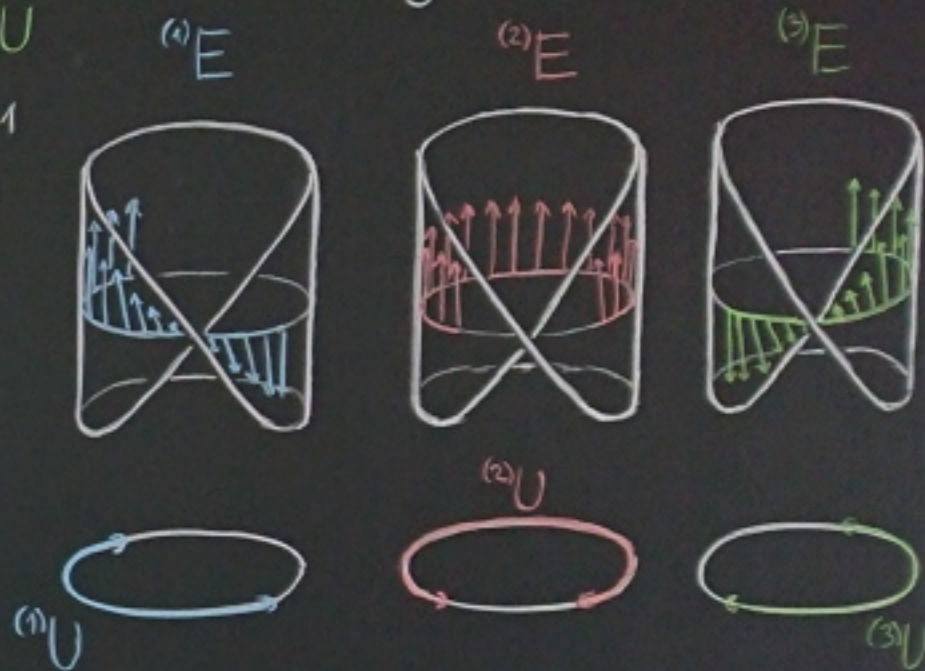
triviální bundle



${}^{(12)}\Phi = [1]$   
 ${}^{(23)}\Phi = [1]$   
 ${}^{(31)}\Phi = [1]$



twistovaná bundle

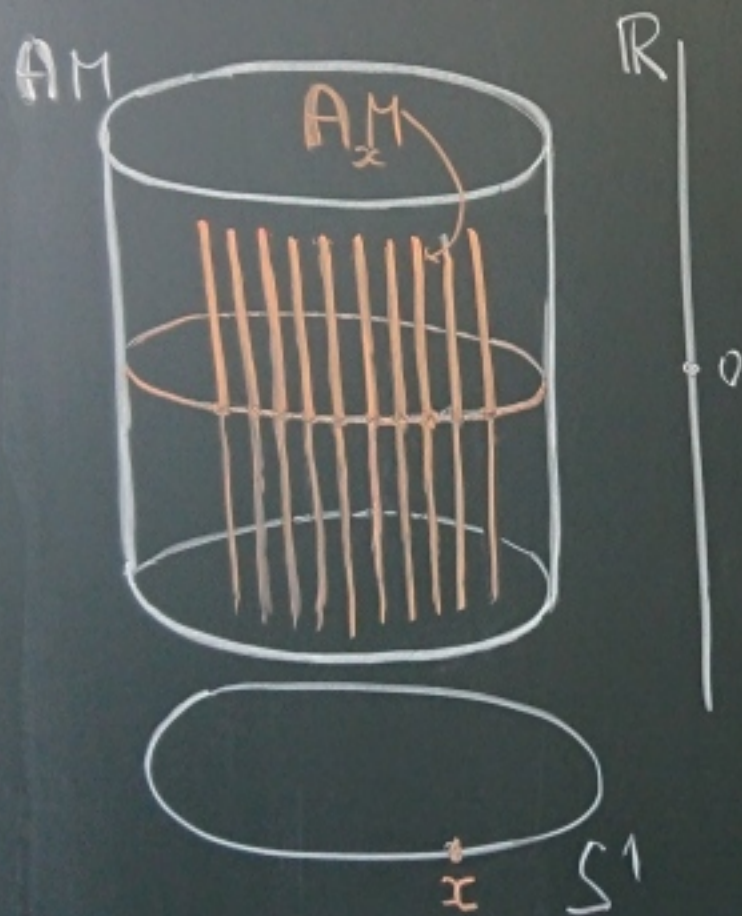


${}^{(12)}\Phi = [1]$   
 ${}^{(23)}\Phi = [1]$   
 ${}^{(31)}\Phi = [-1]$

Př: Lineární bundle nad  $S^1$

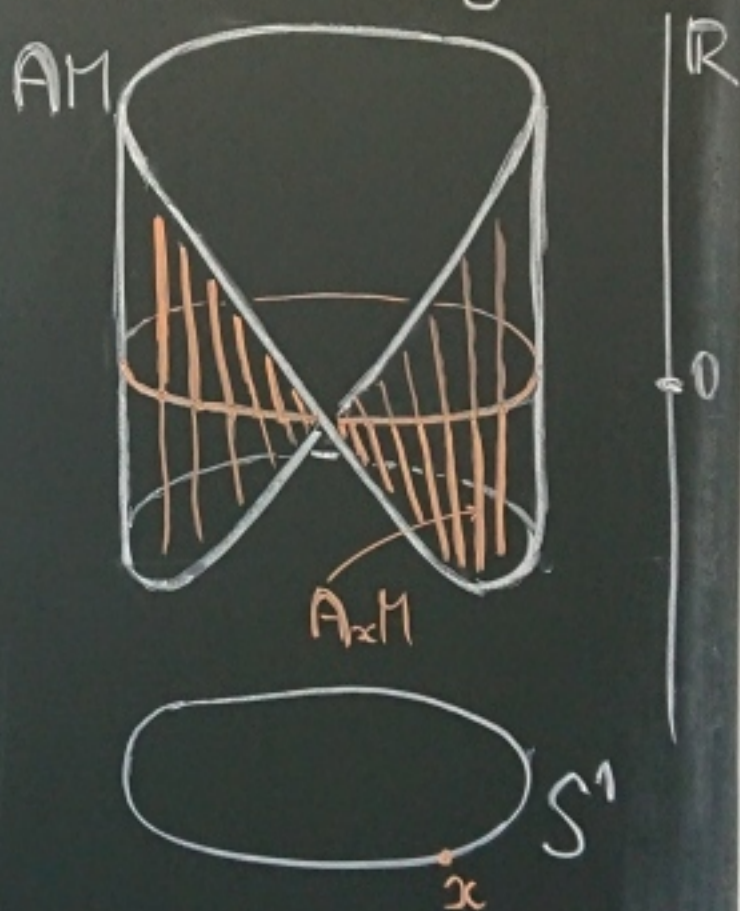
$$M = S^1 \quad A = \mathbb{R}$$

triviální bundle



$$AM \cong S^1 \times \mathbb{R}$$

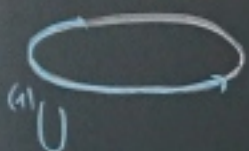
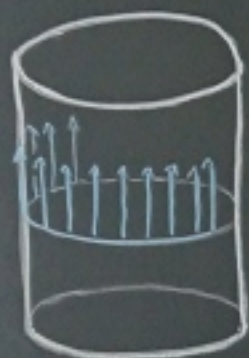
twistovaný bundle



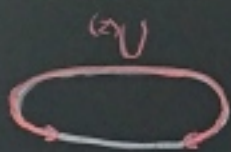
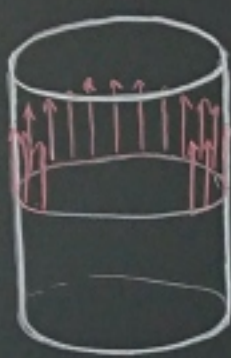
$$AM \not\cong S^1 \times \mathbb{R}$$

# trivialní bundle

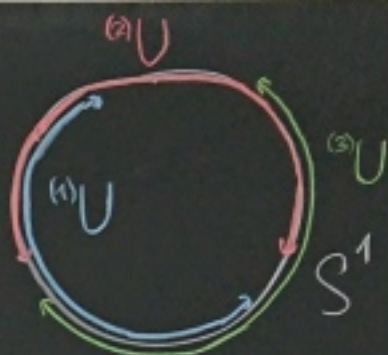
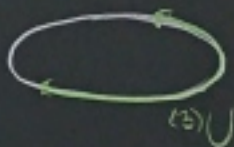
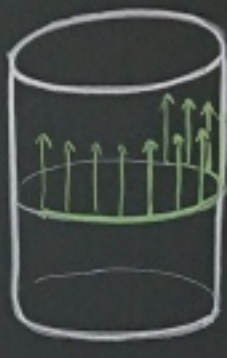
<sup>(1)</sup>E



<sup>(2)</sup>E

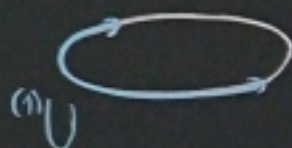


<sup>(3)</sup>E

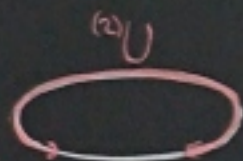


# twistovaná bundle

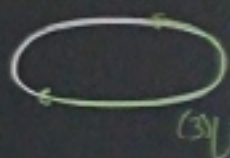
<sup>(1)</sup>E



<sup>(2)</sup>E



<sup>(3)</sup>E



$${}^{(12)}\Phi = [1]$$

$${}^{(23)}\Phi = [1]$$

$${}^{(31)}\Phi = [1]$$

$${}^{(12)}\Phi = [1]$$

$${}^{(23)}\Phi = [1]$$

$${}^{(31)}\Phi = [-1]$$