$$7 \quad \pi_1(\mathbb{S}^n \times \mathbb{S}^m), \quad n, m \in \mathbb{N}$$

Teor 2.6.1: 
$$A, B cpa \implies \pi_1(A \times B) = \pi_1(A) \times \pi_1(B)$$

$$\pi_1(\mathbb{S}^n) = \{e\}, n \neq 1$$

$$\{e\} \times \pi_{1}(A) = \pi_{1}(A)$$

$$\int S^{0} \times S^{0} = \{(\pm 1, 0), (0, \pm 1)\} \subset \mathbb{R}^{2}$$

$$\int S^{0} \times S^{1} = S^{1} \sqcup S^{1}$$

$$\int S^{1} \times S^{1} = \mathbb{T}^{2}$$

$$\pi_{1}(\mathbb{S}^{n}\times\mathbb{S}^{m})=\begin{cases} \mathbb{Z}, & n=1 \text{ av } m=1\\ \{e\}, & \text{altimenti} \end{cases}$$