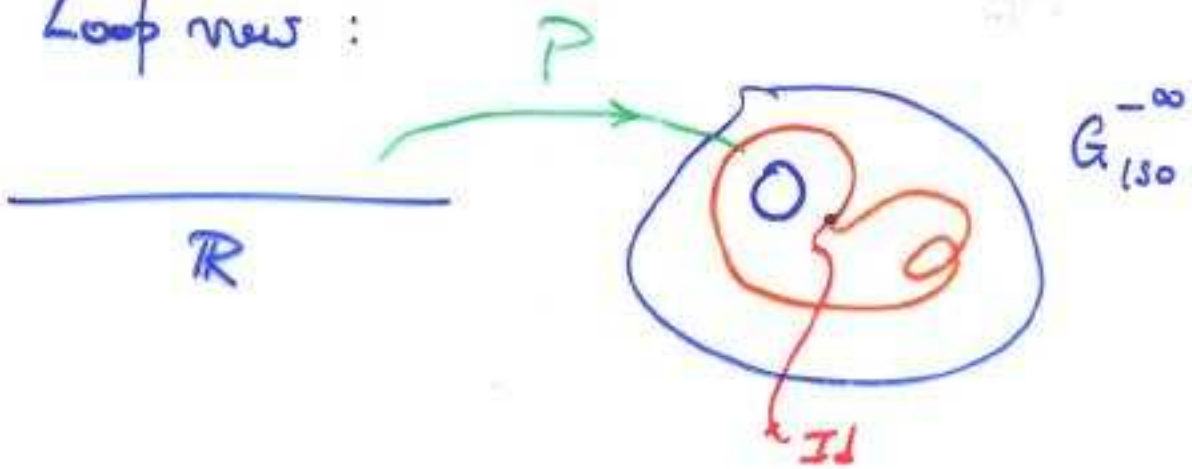
5. Loop view :

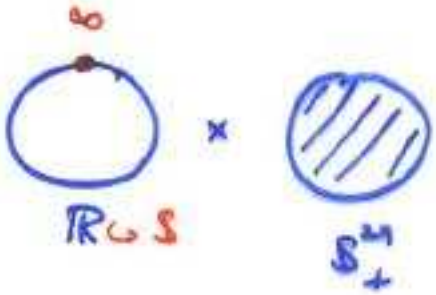


$$c_0(PQ) = c_0(P) + c_0(Q) \qquad P, Q \in G_{1,so}^{-\infty}(n).$$

Index view :

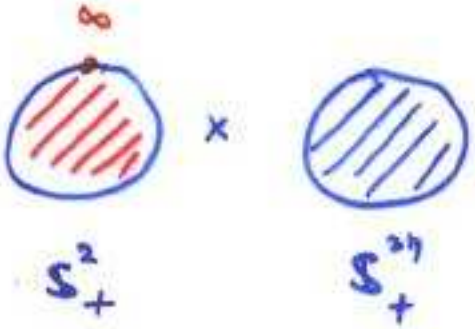
Loop – commutative
Twist – non-commutative

P



$Id + A$

$\tilde{P}$



$Id + \tilde{A}$

$\in G_{1,so}^{0}$

$$C^0(S_+^2 \times S_+^{2n})$$

$\exists \tilde{P}, \tilde{P}^{-1}$ exists, $\tilde{P}|_{\partial} = P \iff c_0(P) = 0.$