$$\begin{split} & (H)_{ab}(H)_{bc} = (cP_{j}(x))_{ab} + mc^{2}(\beta)_{ab})(cP_{k}(x^{k})_{bc} + mc^{2}(\beta)_{bc}) \\ & = c^{2}P_{j}(x^{j})_{ab}P_{k}(x^{k})_{bc} + mc^{3}P_{j}(x^{k})_{ab}(\beta)_{bc} \\ & + mc^{3}P_{k}(\beta)_{ab}(x^{k})_{bc} + m^{2}c^{4}(\beta)_{ab}(\beta)_{bc} \\ & = c^{2}P_{j}P_{k}(x^{j}x^{k} + x^{k}x^{j})_{ac} + mc^{3}P_{j}(x^{j}\beta + \beta x^{j})_{ac} \\ & + mc^{4}(\beta^{2})_{ac} \end{split}$$

$$\Rightarrow (x^{j}x^{k} + x^{k}x^{j})_{ac} = (hx^{j}, x^{k})_{ac} = 18^{jk} S_{ac}$$

$$(x^{j}x^{k} + y^{k}x^{j})_{ac} = (hx^{j}, y^{k})_{ac} = 0$$

$$(x^{j}x^{k} + y^{k}x^{j})_{ac} = S_{ac}$$

autovolos de P.

$$\beta v = \lambda v \Rightarrow \beta^{2}v = \lambda \beta v = \lambda^{2} v$$

$$\Rightarrow v = \lambda^{2}v \Rightarrow \lambda = \pm 1.$$

$$mos \quad \chi^{3}\beta = -\beta \chi^{3} \Rightarrow \beta = -\chi^{3}\beta \chi^{3}$$

$$T_{\Lambda}(\beta) = -T_{\Lambda}(\chi^{3}\beta \chi^{3}) = -T(\beta \chi^{3}\chi^{3}) = -T_{\Lambda}(\beta)$$

$$\Rightarrow T_{\Lambda}(\beta) = 0 \quad \text{mos come} \quad T_{\Lambda}(\beta) = \int_{\lambda}^{\lambda} \lambda$$

reque que B dece porrair o mesmo número de + 1 e - 1 como autordors. Into é, tem dimensão por.

Poro W);

$$x^{j}v = \lambda v \Rightarrow x^{j^{2}}v = \lambda x^{j}v = \lambda^{2}v$$

$$\Rightarrow v = \lambda^{2}v \Rightarrow \lambda = \pm 1.$$

mas
$$\alpha J \beta - - \beta \alpha J \rightarrow \alpha J = - \beta \alpha J \beta$$

$$T_n(di) = -T_n(\beta x^j \beta) = -T_n(x^j \beta^2) = -T_n(x^j)$$

$$\exists T_2(u) = 0$$

pelo mormo orgunento reque que a dimerros de «1 2 B

1,2 -

bose High =
$$\frac{1}{16} \frac{2}{16} \frac{16}{16} \frac{1}{16}$$
.

Appendix: High = $\frac{1}{16} \frac{3}{16} \frac{1}{16} \frac{1}{16}$

$$\int_{3}^{3} \frac{1}{16} \frac{1}{16}$$

$$= \int d^{3}x \int d^{3}y \left(\frac{1}{a} + \frac$$

= 0