

$${}^g \overline{\mathfrak{b} \times \gamma} = \frac{d}{dt}_{t=0} {}^{\mathfrak{b}e^t g} \gamma$$

$$\mathfrak{b} \mathfrak{b}' \times = \mathfrak{b}' \times \mathfrak{b} \times$$

$$\gamma_g \mathfrak{b} \times = \mathfrak{b} \times \gamma_g$$

$$\mathfrak{b} \in \mathfrak{k} \Rightarrow \mathfrak{b} \mathfrak{b}' \times \gamma = 0$$

$${}^g \overline{\mathfrak{b} \times \gamma} = \frac{d}{dt}_{t=0} {}^{K\mathfrak{b}e^t g} \gamma = \frac{d}{dt}_{t=0} {}^{Kg} \gamma = 0$$

$$\Rightarrow \mathfrak{b} \mathfrak{b}' \times \gamma = \mathfrak{b}' \times \mathfrak{b} \times \gamma = 0$$

$$\mathfrak{b} \in \mathfrak{k} \overline{\mathbb{C} \mathbb{A} \mathbb{G}} + \overline{\mathbb{C} \mathbb{A} \mathbb{G}} \mathfrak{n} + \mathfrak{b}_a \Rightarrow \mathfrak{b} \mathfrak{b}'_a = \mathfrak{b}_a \mathfrak{b}'_a$$

$$\mathfrak{b} \mathfrak{b}' - \mathfrak{b}_a \mathfrak{b}'_a = \mathfrak{b} \mathfrak{b}' - \mathfrak{b}'_a + \mathfrak{b} - \mathfrak{b}_a \mathfrak{b}'_a$$

$$\in \mathfrak{b} \overline{\mathbb{C} \mathbb{A} \mathbb{G}} + \overline{\mathbb{C} \mathbb{A} \mathbb{G}} \mathfrak{n} + \mathfrak{k} \overline{\mathbb{C} \mathbb{A} \mathbb{G}} + \overline{\mathbb{C} \mathbb{A} \mathbb{G}} \mathfrak{n} \mathfrak{b}'_a$$

$$= \mathfrak{k} \overline{\mathbb{C} \mathbb{A} \mathbb{G}} + \mathfrak{b} \overline{\mathbb{C} \mathbb{A} \mathbb{G}} \mathfrak{n} + \mathfrak{k} \overline{\mathbb{C} \mathbb{A} \mathbb{G}} \mathfrak{b}'_a + \overline{\mathbb{C} \mathbb{A} \mathbb{G}} \mathfrak{b}'_a \mathfrak{n} \in \mathfrak{k} \overline{\mathbb{C} \mathbb{A} \mathbb{G}} + \overline{\mathbb{C} \mathbb{A} \mathbb{G}} \mathfrak{n}$$

$$\mathfrak{b} = \mathfrak{b}_t \mathfrak{b}' + \mathfrak{b}_a + \mathfrak{b}' \mathfrak{b}_n$$

$$\mathfrak{b} \times \gamma = \mathfrak{b}' \times \mathfrak{b} \times \gamma \underset{=0}{=} + \mathfrak{b}_a \times \gamma + \mathfrak{b}' \times \mathfrak{b}'_n \times \gamma$$

$${}^a \overline{\mathfrak{b} \times \mathfrak{b}'_n \times \gamma} = {}^e \overline{\gamma_a \mathfrak{b}' \times \mathfrak{b}'_n \times \gamma} = {}^e \overline{\mathfrak{b}' \times \gamma_a \mathfrak{b}'_n \times \gamma} = \frac{d}{dt}_{t=0} {}^{\mathfrak{b}e^t} \overline{\gamma_a \mathfrak{b}'_n \times \gamma} = 0$$

$$\gamma_N \text{ fix} \Leftarrow {}^n \overline{\gamma_a \mathfrak{b}'_n \times \gamma} = {}^e \overline{\gamma_n \gamma_a \mathfrak{b}'_n \times \gamma} = {}^e \overline{\gamma_a \gamma'_n \mathfrak{b}'_n \times \gamma} = {}^a \overline{\mathfrak{b}'_n \times \gamma'_n} = {}^a \overline{\mathfrak{b}'_n \times \gamma} \text{ unabh von } n \in N$$