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29 апреля 2021 г.

$$F_{\mu\nu} = \partial_\mu A_\nu - \partial_\nu A_\mu.$$

$$\partial_\alpha F_{\nu\mu} + \partial_\nu F_{\mu\alpha} + \partial_\mu F_{\alpha\nu} = \partial_\alpha \partial_\nu A_\mu - \partial_\alpha \partial_\mu A_\nu + \partial_\nu \partial_\mu A_\alpha - \partial_\nu \partial_\alpha A_\mu + \partial_\mu \partial_\alpha A_\nu - \partial_\mu \partial_\nu A_\alpha = 0.$$

$$0 = 0.$$

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