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## **PMFs from Double Inflation**

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We study the helical magnetic fields during an inflationary period, which is the result of the tachyonic growth of the gauge field. We consider double inflation model and solve the electromagnetic dynamics. We find that magnetic fields with amplitude  $\boxtimes \approx 10-23$   $\boxtimes$  at present can be generated, which can be considered as magnetic seed for the magnetic field observed in galaxies.

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