

Erratum: Superconducting states and depinning transitions of Josephson ladders [Phys. Rev. B 57, 1181 (1998)]

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[S0163-1829(98)04933-9]

The first formula of Sec. VI should include a contribution from the driving current. In our choice of gauge,

$$E = - \sum_{\text{all}} \cos \phi_j - I \sum_{j=1}^{N+1} \phi_j^V.$$

Accordingly, Eq. (64) becomes

$$\sqrt{1-I^2} + 2 \cos(\pi f_{\text{NV-FF}}) + I \arcsin(I) - 2 \sin(\pi f_{\text{NV-FF}})(1-2I^2/L)^{-1/2} - I \arcsin(\sqrt{L/2}) = 0,$$

and $f_{\text{NV-FF}}(I=0) = \frac{1}{3}$ remains unaltered. Figure 15 is very slightly modified as shown. The conclusions do not change.

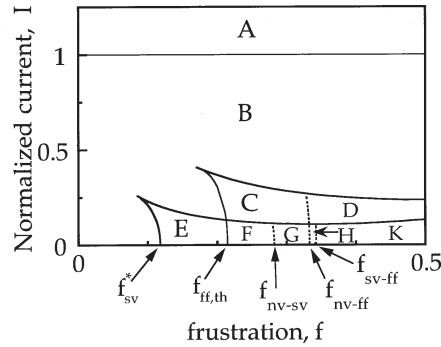


FIG. 15. Phase diagram of the NV, SV, and FF solutions in the infinite (no edges) ladder—also relevant for the ring ladder. Note that region H shrinks as the number of junctions is increased (i.e., $f_{\text{sv-ff}}$ tends asymptotically to $f_{\text{nv-ff}}$ as $N \rightarrow \infty$). Thus, the region H in the figure is only indicative.