Supplement on Dirac's Magnetic Monopole (Dirac 1931)

$\vec{A}_I$, Ψ_I regular on surface I

Overlap: $\vec{A}_I(\phi) = \vec{A}_{II}(\phi) + \vec{\nabla}\,\chi(\phi)$

$\Psi_I(\phi) = \mathrm{e}^{\frac{\mathrm{i}\,q}{\hbar\,c}\,\chi(\phi)}\,\Psi_{II}(\phi)$

$\vec{A}_{II}$, Ψ_{II} regular on surface II
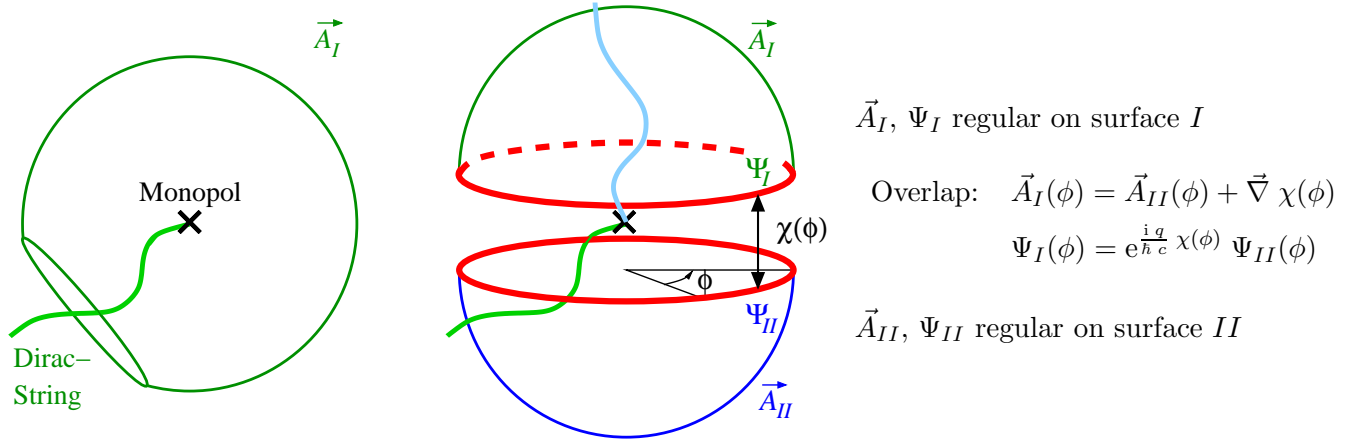
Left: The exact position of the Dirac String is arbitrary. Right: Constructing a vector potential of a magnetic monopole by two domains of definition (*Wu-Yang construction*, 1976).
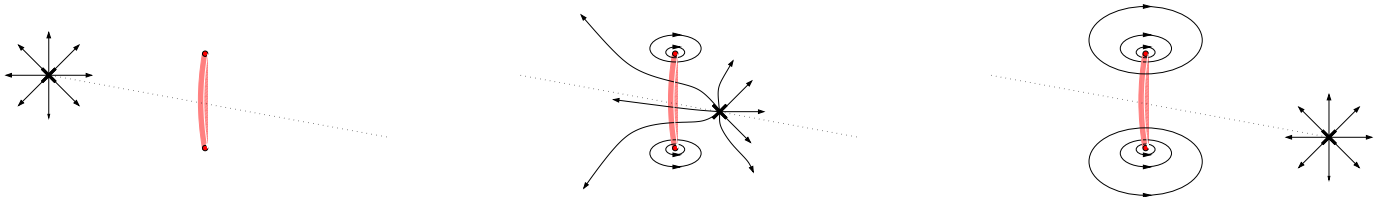
Magnetic induction $\Delta I = \dfrac{2\pi\hbar\,c}{q}\,n$ (n integer) by a magnetic monopole flying through a ring.
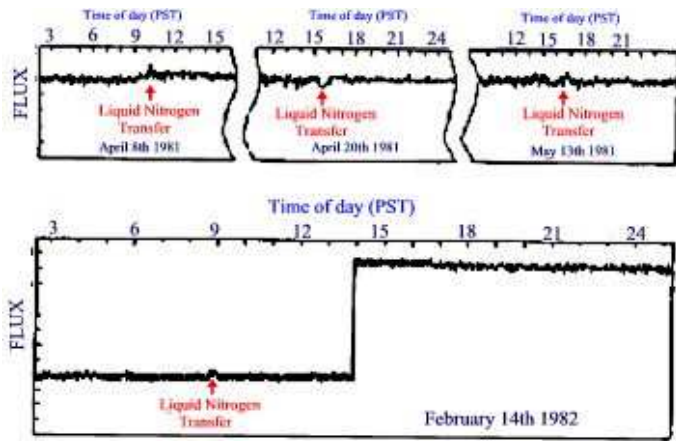
Roses are red and Violets are Blue
Wouldn't it be time for Monopole Two?

Signature of Cabrera's Valentine's-Day-Monopole 1982 ("Cabrera-event") and a reply.