An issue raised by Ester Dalvit

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Theorem 1 (with Cattaneo (credit, no blame)). In the ribbon case, $e^c$ can be computed as follows:

$$\sum_{k,m \geq 0} \frac{(-1)^k (1)^m}{k! / m!}$$

Are there $(S^2 \times S^1)$-valued direction-d-view maps for ribbon 2-knots? I need a better name. For That, "direction map"? "bearing map"?
Infrared matters!

\[ L = \frac{x \, dy - y \, dx}{x^2 + y^2} \]

\[ = \frac{-y \, dx}{x^2 + y^2} + \frac{x \, dy}{x^2 + y^2} \]

\[ \frac{\partial}{\partial W^{00}} \]