

MATHEMATICAL SCIENCES RESEARCH INSTITUTE

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Dear Joan,

Here's the formula for closed 3-brands
which are knots: $\Delta(q) = \Delta(q^{-1})$, $\Delta(1) = 1$ as usual.

$$X(q,s) = \frac{q^{1-\frac{e}{2}} s^{\frac{e}{2}-1}}{(1-q^2)(1-q^3)} \left[q^e (s-q)(s-q^2) + (q^2s-1)(q^2s-1) + (1+q)(s-q)(q^2s-1) \left\{ 1+q^e - q^{\frac{e}{2}}(1+q+q^{-1}) \Delta(q) \right\} \right]$$

It's satisfied by q_{42} so I better check
Murasugi's argument.

All the best,

Vaughan

PS. in (l,m) variables

$$l^2 = -s$$

$$m^2 = 1 - q - q^{-1}$$

?

$\left. \begin{matrix} q_{42} \\ q_{49} \end{matrix} \right\}$ are they
3-brands?