

tf.contrib.bayesflow.csiszar_divergence.chi_square

```
chi_square(  
    logu,  
    name=None  
)
```

Defined in [tensorflow/contrib/bayesflow/python/ops/csiszar_divergence_impl.py](#).

The chi-Square Csiszar-function in log-space.

A Csiszar-function is a member of,

$$F = \{ f: \mathbb{R}_+ \rightarrow \mathbb{R} : f \text{ convex} \}.$$

The Chi-square Csiszar-function is:

$$f(u) = u^2 - 1$$



Warning: this function makes non-log-space calculations and may therefore be numerically unstable for $|\log u| \gg 0$.

Args:

- `logu`: **float**-like **Tensor** representing $\log(u)$ from above.
- `name`: Python **str** name prefixed to Ops created by this function.

Returns:

- `chi_square_of_u`: **float**-like **Tensor** of the Csiszar-function evaluated at $u = \exp(\log u)$.

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Last updated November 2, 2017.

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