Efficient PSIS-LOO approximation to exact LOO-CV

Warning messages:
1: Some Pareto k diagnostic values are too high. See help('pareto-k-diagnostic') for details.
2: in log(z) : NaNs produced
3: in log(z) : NaNs produced

Computed from 10000 by 2000 log-likelihood matrix

Estimate  SE
elpd_loo -20275.1  99.8
p_loo      1278.6  29.6
looic      40550.2 199.6

Monte Carlo SE of elpd_loo is NA.

Pareto k diagnostic values:

(-Inf, 0.5] (good) 1609 80.5% 698
(0.5, 0.7] (ok)  272 13.6%  122
(0.7, 1] (bad)  110  5.5%  18
(1, Inf) (very bad)  9  0.4%  6

See help('pareto-k-diagnostic') for details.
Efficient PSIS-LOO approximation to exact LOO-CV – model 2

```
Warning messages:
1: Some Pareto k diagnostic values are too high. See help('pareto-k-diagnostic') for details.
2: In log(z) : NaNs produced
3: In log(z) : NaNs produced
> print(loo_2)

Computed from 10000 by 2000 log-likelihood matrix

<table>
<thead>
<tr>
<th>estimate</th>
<th>SE</th>
</tr>
</thead>
<tbody>
<tr>
<td>elpd_loo</td>
<td>-21037.1 97.9</td>
</tr>
<tr>
<td>p_loo</td>
<td>1105.5 27.9</td>
</tr>
<tr>
<td>loo_ic</td>
<td>42074.2 195.9</td>
</tr>
</tbody>
</table>

Monte Carlo SE of elpd_loo is NA.

Pareto k diagnostic values:

<table>
<thead>
<tr>
<th>Count</th>
<th>Pct.</th>
<th>Min. n_eff</th>
</tr>
</thead>
<tbody>
<tr>
<td>(&lt;Inf, 0.5]</td>
<td>(good)</td>
<td>1787 80.3% 652</td>
</tr>
<tr>
<td>(0.5, 0.75]</td>
<td>(ok)</td>
<td>164 8.2% 108</td>
</tr>
<tr>
<td>(0.75, 1]</td>
<td>(bad)</td>
<td>46 2.3% 16</td>
</tr>
<tr>
<td>(&gt;1, Inf]</td>
<td>(very bad)</td>
<td>4 0.2% 10</td>
</tr>
</tbody>
</table>

See help('pareto-k-diagnostic') for details.
```
Efficient PSIS-LOO approximation to exact LOO-CV – model 3

```
warning messages:
1: Some Pareto k diagnostic values are too high. See help('pareto-k-diagnostic') for details.
2: In log(z) : NaNs produced
   > print(loo_3)

  computed from 10000 by 2000 log-likelihood matrix

            Estimate    SE
elpd_loo   -20011.5 101.2
p_loo       1269.6  29.2
looic      40023.0 202.4

Monte Carlo SE of elpd_loo is NA.

Pareto k diagnostic values:

   Count Pct. Min. n_eff
(-Inf, 0.5] (good)  1626  81.3%    671
(0.5, 0.7] (ok)   268  13.4%    156
(0.7, 1] (bad)   101  5.1%      19
(1, Inf] (very bad)   5 0.2%      3
See help('pareto-k-diagnostic') for details.
```