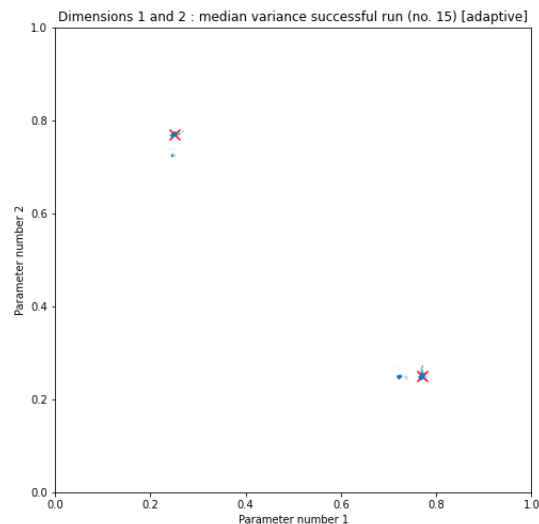


## Adaptive times

$$t_{(k)} = \frac{1}{(\text{occupation\_rate}_{(k-1)})^{\alpha_1} \times \left( \text{ESS}_{(k-1)} / N_{\text{particles}} \right)^{\alpha_2}}$$

### Median run



- \* Success rate: **85%**
- \* Median variance among successful runs: **7.3e-5**
- \* Mean variance among successful runs: **1.6e-3**

Run corresponding to the median variance:

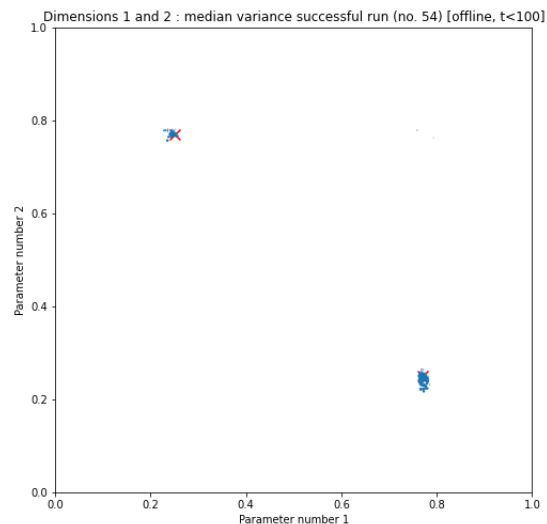
```
{'acceptance_ratio': 97,  
'distance': 0.0059  
'percent_dev': 29,  
'resampler_calls': 5,  
'tmax': 442.1}
```

## Offline times I

$$t_{\max} = 100$$

(then choose randomly from  $[0, t_{\max}]$ )

### Median run



- \* Success rate: **65%**
- \* Median variance among successful runs: **2.0e-4**
- \* Mean variance among successful runs: **2.1e-3**

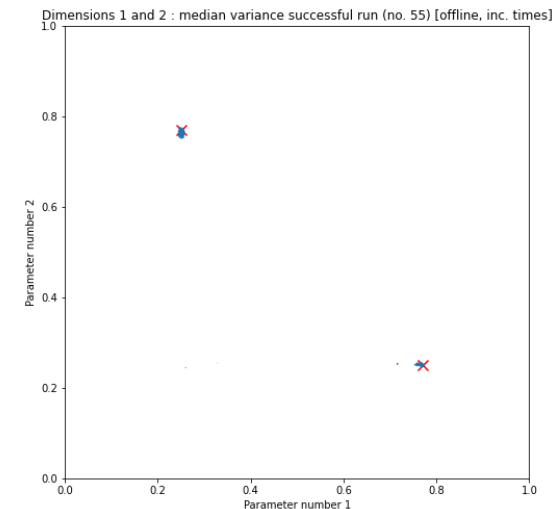
Run corresponding to the median variance:

```
{'acceptance_ratio': 99,  
'distance': 0.010,  
'percent_dev': 61,  
'resampler_calls': 6,  
'tmax': 97.9}
```

## Offline times II

$$t_{\max}^{(k)} = (\text{floor}(k/40)+1) \times 100$$

### Median run



- \* Success rate: **53%**
- \* Median variance among successful runs: **1.8e-4**
- \* Mean variance among successful runs: **1.7e-3**

Run corresponding to the median variance:

```
{'acceptance_ratio': 98,  
'distance': 0.0067,  
'percent_dev': 62,  
'resampler_calls': 4,  
'tmax': 296.5}
```

20<sup>2</sup> particles, 100 measurements/steps