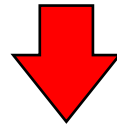


Optimization design of photocathode injector assisted by deep gaussian process

Sun Zheng, Xin Tianmu

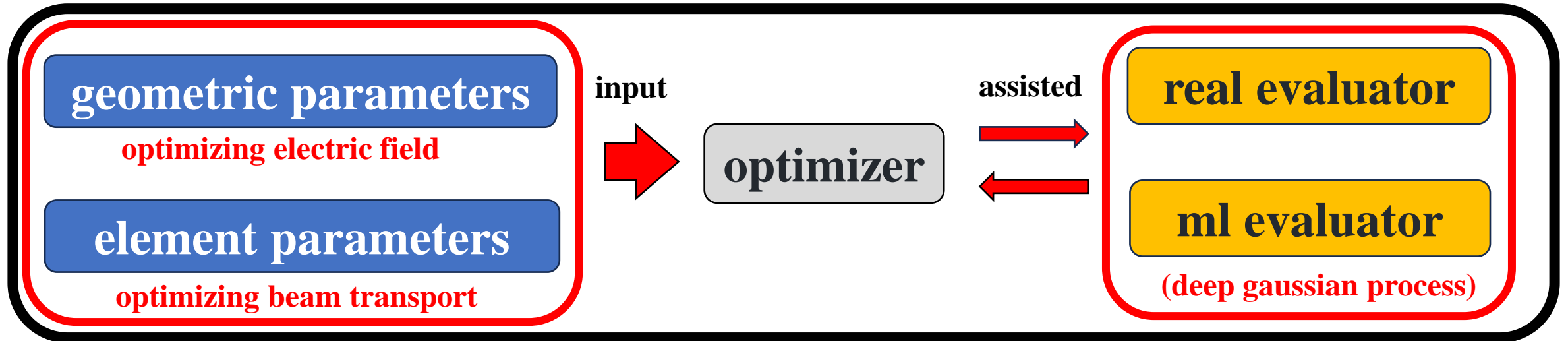
Combined **geometric parameters** of radio frequency gun and **beam element parameters**

Challenge



too many parameters

evaluation process time-consuming



Objectives: reduce the **emittance** and **bunch length at exit**