

```
<?xml version="1.0"?>
```

```
<simulation>
```

```
  <project id="TITLE" series="0" />
```

```
  <include href="PTCLXML" />
```

```
  <include href="WFSXML" />
```

```
  <include href="HAMXML" />
```

```
  <loop max="5">
```

(a) problem  
descriptions

```
    <qmc method="cslinear" move="pbyp" checkpoint="-1" >
```

```
      <cost name="energy"> 0.05 </cost>
```

```
      <cost name="unreweightedvariance">0.00 </cost>
```

```
      <cost name="reweightedvariance"> 0.95 </cost>
```

```
    </qmc>
```

(b) optimization

```
  </loop>
```

```
  <qmc method="vmc" move="pbyp">
```

```
    <parameter name="timestep">1</parameter>
```

```
    <parameter name="samples">100000</parameter>
```

```
  </qmc>
```

(c) vmc

```
  <qmc method="dmc" move="pbyp">
```

```
    <parameter name="timestep">0.02</parameter>
```

```
  </qmc>
```

(d) dmc

```
</simulation>
```