**LCLS-I Undulator pitch change (~2009 ÷ 2014)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S/N** | **Pitch (μm/220poles)** | | |
| **Before** | **Now** | **Change** |
| 10 | -5 | -30 | -25 |
| 25 | -10 | -35 | -25 |
| 24 | 0 | -35 | -35 |
| 33 | -5 | -30 | -25 |
| 30 | -10 | -40 | -30 |
| 9 | -25 | -60 | -35 |
| 13 | 0 | 0 | 0 |
| 34 | -10 | -20 | -10 |