xsequence_presentation

November 9, 2021

```
[1]: from xsequence.lattice import Lattice
     from xsequence.conversion_utils import conv_utils
```

Lattices can be imported from different sources. Currently only limited to FCC-ee lattice without complicated Solenoid IR descriptions.

Different examples: - From cpymad instance - From MAD-X sequence file through cpymad - From SAD using built in SAD2MAD converter (no tilted Solenoid, but Twiss table based conversion can be implemented) - From pyAT

```
[2]: # Import from cpymad instance
     madx_lattice = conv_utils.create_cpymad_from_file("FCCee_h.seq", energy=120)
     lat = Lattice.from_cpymad(madx_lattice, 'l000013')

     # Import from madx sequence file (through cpymad)
     lat_mad = Lattice.from_madx_seqfile("FCCee_h.seq", 'l000013', energy=120)

     # Import from sad sequence file
     lat_sad = Lattice.from_sad("FCCee_h.sad", 'ring', energy=120)

     # Import from pyat instance
     pyat_lattice = conv_utils.create_pyat_from_file("FCCee_h.mat")
     lat = Lattice.from_pyat(pyat_lattice)
```

```
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    +     MAD-X 5.07.00  (64 bit, Linux)       +
    + Support: mad@cern.ch, http://cern.ch/mad +
    + Release   date: 2021.05.03               +
    + Execution date: 2021.11.09 15:42:59      +
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    +     MAD-X 5.07.00  (64 bit, Linux)       +
    + Support: mad@cern.ch, http://cern.ch/mad +
    + Release   date: 2021.05.03               +
    + Execution date: 2021.11.09 15:43:08      +
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```

A lattice can also be created from scratch in Python

```
[5]: import xsequence.elements as xe

     # Create elements
     q1 = xe.Quadrupole('q1', length=1, k1=0.2, location=1)
     q2 = xe.Quadrupole('q2', length=1, k1=-0.2, location=3)
     q3 = xe.Quadrupole('q3', length=1, k1=0.2, location=5)

     element_dict = {'q1':q1, 'q2':q2, 'q3':q3}
     lat = Lattice('lat_name', element_dict, key='sequence')

     # Create elements
     d0 = xe.Drift('d0', length=1)
     q1 = xe.Quadrupole('q1', length=1, k1=0.2)
     d1 = xe.Drift('d1', length=1)
     q2 = xe.Quadrupole('q2', length=1, k1=-0.2)
     d2 = xe.Drift('d1', length=1)
     q3 = xe.Quadrupole('q3', length=1, k1=0.2)

     element_dict = {'d0':d0, 'q1':q1, 'd1':d1,
                     'q2':q2, 'd2':d2, 'q3':q3}
     lat = Lattice('lat_name', element_dict, key='line')
```

A Lattice() instance contains two representations of the lattice:

sequence: List of elements without drifts, based on positions

line: List of elements with explicit drifts

```
[ ]: # Import from sad sequence file
     lat = Lattice.from_madx_seqfile("FCCee_h.seq", 'l000013', energy=120)
```

```
[6]: print(lat.sequence)
```

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        +     MAD-X 5.07.00  (64 bit, Linux)        +
        + Support: mad@cern.ch, http://cern.ch/mad +
        + Release   date: 2021.05.03               +
        + Execution date: 2021.11.09 15:43:33      +
        +++++++++++++++++++++++++++++++++++++++++++++
     ['l000013$start', 'ip.1', 'qc1l1.1', 'qc1r2.1', 'qc1r3.1', 'qc2r1.1', 'qc2r2.1',
     'pqc2re.1', 'qt1.1', 'qc3.1', 'qc4.1', 'bc1.1', 'qc5.1', 'bc2.1', 'qc6.1',
     'bc3.1', 'qc7.1', 'sy1r.1', 'sy1r.2', 'bc4.1', 'qy2.1', 'bc5.1', 'qy1.1',
     'bc6.1', 'qy2.2', 'bc7.1', 'sy2r.1', 'sy2r.2', 'qa1.1', 'qa2.1', 'qa3.1',
     'qa4.1', 'qa5.1', 'qa6.1', 'bs1.1', 'qs1.1', 'bs2.1', 'qs2.1', 'bs3.1', 'qs3.1',
     'fg.1', 'sf1.1', 'sf1.2', 'qfg2.1', 'bg1.1', 'qdg1.1', 'bg1.2', 'qfg2.2',
     'bg1.3', 'qdg1.2', 'bg1.4', 'sf1.3', 'sf1.4', 'qfg2.3', 'bg1.5', 'sd1.1',
     'sd1.2', 'qdg1.3', 'bg1.6', 'qfg2.4', 'bg1.7', 'qdg1.4', 'bg1.8', 'qfg2.5',
     'bg1.9', 'sd1.3', 'sd1.4', 'qdg1.5', 'bg1.10', 'fg.2', 'sf2.1', 'sf2.2',
```

'qfg2.6', 'bg1.11', 'qdg1.6', 'bg1.12', 'qfg2.7', 'bg1.13', 'qdg1.7', 'bg1.14',
'sf2.3', 'sf2.4', 'qfg2.8', 'bg1.15', 'sd2.1', 'sd2.2', 'qdg1.8', 'bg1.16',
'qfg2.9', 'bg1.17', 'qdg1.9', 'bg1.18', 'qfg2.10', 'bg1.19', 'sd2.3', 'sd2.4',
'qg1.1', 'bg2.1', 'qg2.1', 'bg3.1', 'qg3.1', 'bg4.1', 'qg4.1', 'bg5.1', 'qg5.1',
'bg6.1', 'qg6.1', 'bg7.1', 'qg7.1', 'bg8.1', 'qg8.1', 'bg9.1', 'qg9.1', 'bga.1',
'fd0a.1', 'sd3.1', 'sd3.2', 'qd3.1', 'b1.1', 'qf4.1', 'b1.2', 'qd3.2', 'b1l.1',
'qf4.2', 'b1s.1', 'sd3.3', 'sd3.4', 'qd3.3', 'b1s.2', 'sf3.1', 'sf3.2', 'qf4.3',
'b1.3', 'qd3.4', 'b1.4', 'qf4.4', 'b1.5', 'qd3.5', 'b1s.3', 'sf3.3', 'sf3.4',
'qf4.5', 'b1s.4', 'sd4.1', 'sd4.2', 'qd3.6', 'b1l.2', 'qf4.6', 'b1.6', 'qd3.7',
'b1.7', 'qf4.7', 'b1s.5', 'sd4.3', 'sd4.4', 'qd3.8', 'b1s.6', 'sf4.1', 'sf4.2',
'qf4.8', 'b1.8', 'qd3.9', 'b1l.3', 'qf4.9', 'b1l.4', 'qd3.10', 'b1s.7', 'sf4.3',
'sf4.4', 'qf4.10', 'b1s.8', 'fdia.1', 'sd5.1', 'sd5.2', 'qd3.11', 'b1.9',
'qf4.11', 'b1.10', 'qd3.12', 'b1.11', 'qf4.12', 'b1s.9', 'sd5.3', 'sd5.4',
'qd3.13', 'b1s.10', 'sf5.1', 'sf5.2', 'qf4.13', 'b1.12', 'qd3.14', 'b1.13',
'qf4.14', 'b1.14', 'qd3.15', 'b1s.11', 'sf5.3', 'sf5.4', 'qf4.15', 'b1s.12',
'sd6.1', 'sd6.2', 'qd3.16', 'b1l.5', 'qf4.16', 'b1l.6', 'qd3.17', 'b1.15',
'qf4.17', 'b1s.13', 'sd6.3', 'sd6.4', 'qd3.18', 'b1s.14', 'sf6.1', 'sf6.2',
'qf4.18', 'b1.16', 'qd3.19', 'b1.17', 'qf4.19', 'b1l.7', 'qd3.20', 'b1s.15',
'sf6.3', 'sf6.4', 'qf4.20', 'b1s.16', 'sd7.1', 'sd7.2', 'qd3.21', 'b1.18',
'qf4.21', 'b1.19', 'qd3.22', 'b1.20', 'qf4.22', 'b1s.17', 'sd7.3', 'sd7.4',
'qd3.23', 'b1s.18', 'sf7.1', 'sf7.2', 'qf4.23', 'b1l.8', 'qd3.24', 'b1.21',
'qf4.24', 'b1.22', 'qd3.25', 'b1s.19', 'sf7.3', 'sf7.4', 'qf4.25', 'b1s.20',
'sd8.1', 'sd8.2', 'qd3.26', 'b1.23', 'qf4.26', 'b1l.9', 'qd3.27', 'b1l.10',
'qf4.27', 'b1s.21', 'sd8.3', 'sd8.4', 'qd3.28', 'b1s.22', 'sf8.1', 'sf8.2',
'qf4.28', 'b1.24', 'qd3.29', 'b1.25', 'qf4.29', 'b1.26', 'qd3.30', 'b1s.23',
'sf8.3', 'sf8.4', 'qf4.30', 'b1s.24', 'sd9.1', 'sd9.2', 'qd3.31', 'b1.27',
'qf4.31', 'b1.28', 'qd3.32', 'b1.29', 'qf4.32', 'b1s.25', 'sd9.3', 'sd9.4',
'qd3.33', 'b1s.26', 'sf9.1', 'sf9.2', 'qf4.33', 'b1l.11', 'qd3.34', 'b1l.12',
'qf4.34', 'b1.30', 'qd3.35', 'b1s.27', 'sf9.3', 'sf9.4', 'qf4.35', 'b1s.28',
'sd10.1', 'sd10.2', 'qd3.36', 'b1.31', 'qf4.36', 'b1.32', 'qd3.37', 'b1l.13',
'qf4.37', 'b1s.29', 'sd10.3', 'sd10.4', 'qd3.38', 'b1s.30', 'sf10.1', 'sf10.2',
'qf4.38', 'b1.33', 'qd3.39', 'b1.34', 'qf4.39', 'b1.35', 'qd3.40', 'b1s.31',
'sf10.3', 'sf10.4', 'qf4.40', 'b1s.32', 'sd11.1', 'sd11.2', 'qd3.41', 'b1l.14',
'qf4.41', 'b1.36', 'qd3.42', 'b1.37', 'qf4.42', 'b1s.33', 'sd11.3', 'sd11.4',
'qd3.43', 'b1s.34', 'sf11.1', 'sf11.2', 'qf4.43', 'b1.38', 'qd3.44', 'b1l.15',
'qf4.44', 'b1l.16', 'qd3.45', 'b1s.35', 'sf11.3', 'sf11.4', 'qf4.45', 'b1s.36',
'sd12.1', 'sd12.2', 'qd3.46', 'b1.39', 'qf4.46', 'b1.40', 'qd3.47', 'b1.41',
'qf4.47', 'b1s.37', 'sd12.3', 'sd12.4', 'qd3.48', 'b1s.38', 'sf12.1', 'sf12.2',
'qf4.48', 'b1.42', 'qd3.49', 'b1.43', 'qf4.49', 'b1.44', 'qd3.50', 'b1s.39',
'sf12.3', 'sf12.4', 'qf4.50', 'b1s.40', 'sd13.1', 'sd13.2', 'qd3.51', 'b1l.17',
'qf4.51', 'b1l.18', 'qd3.52', 'b1.45', 'qf4.52', 'b1s.41', 'sd13.3', 'sd13.4',
'qd3.53', 'b1s.42', 'sf13.1', 'sf13.2', 'qf4.53', 'b1.46', 'qd3.54', 'b1.47',
'qf4.54', 'b1l.19', 'qd3.55', 'b1s.43', 'sf13.3', 'sf13.4', 'qf4.55', 'b1s.44',
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'qf4.57', 'b1s.45', 'sd14.3', 'sd14.4', 'qd3.58', 'b1s.46', 'sf14.1', 'sf14.2',
'qf4.58', 'b1l.20', 'qd3.59', 'b1.51', 'qf4.59', 'b1.52', 'qd3.60', 'b1s.47',
'sf14.3', 'sf14.4', 'qf4.60', 'b1s.48', 'sd15.1', 'sd15.2', 'qd3.61', 'b1.53',
'qf4.61', 'b1l.21', 'qd3.62', 'b1l.22', 'qf4.62', 'b1s.49', 'sd15.3', 'sd15.4',

'qd3.63', 'b1s.50', 'sf15.1', 'sf15.2', 'qf4.63', 'b1.54', 'qd3.64', 'b1.55',
'qf4.64', 'b1.56', 'qd3.65', 'b1s.51', 'sf15.3', 'sf15.4', 'qf4.65', 'b1s.52',
'sd16.1', 'sd16.2', 'qd3.66', 'b1.57', 'qf4.66', 'b1.58', 'qd3.67', 'b1.59',
'qf4.67', 'b1s.53', 'sd16.3', 'sd16.4', 'qd3.68', 'b1s.54', 'sf16.1', 'sf16.2',
'qf4.68', 'b1l.23', 'qd3.69', 'b1.60', 'qf4.69', 'b1.61', 'qd3.70', 'b1s.55',
'sf16.3', 'sf16.4', 'qf4.70', 'b1.62', 'fd3a.1', 'fd3a.2', 'qn61.1', 'qn6.1',
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'qn9.1', 'qn8.1', 'bds.2', 'qn7.1', 'qna.1', 'qna1.1', 'fd1a.1', 'fd1a.2',
'sd17.1', 'sd17.2', 'qd3.71', 'b1.63', 'qf4.71', 'b1.64', 'qd3.72', 'b1.65',
'qf4.72', 'b1s.56', 'sd17.3', 'sd17.4', 'qd3.73', 'b1s.57', 'sf17.1', 'sf17.2',
'qf4.73', 'b1l.24', 'qd3.74', 'b1l.25', 'qf4.74', 'b1.66', 'qd3.75', 'b1s.58',
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'qf4.76', 'b1.68', 'qd3.77', 'b1l.26', 'qf4.77', 'b1s.60', 'sd18.3', 'sd18.4',
'qd3.78', 'b1s.61', 'sf18.1', 'sf18.2', 'qf4.78', 'b1.69', 'qd3.79', 'b1.70',
'qf4.79', 'b1.71', 'qd3.80', 'b1s.62', 'sf18.3', 'sf18.4', 'qf4.80', 'b1s.63',
'sd19.1', 'sd19.2', 'qd3.81', 'b1l.27', 'qf4.81', 'b1.72', 'qd3.82', 'b1.73',
'qf4.82', 'b1s.64', 'sd19.3', 'sd19.4', 'qd3.83', 'b1s.65', 'sf19.1', 'sf19.2',
'qf4.83', 'b1.74', 'qd3.84', 'b1l.28', 'qf4.84', 'b1l.29', 'qd3.85', 'b1s.66',
'sf19.3', 'sf19.4', 'qf4.85', 'b1s.67', 'sd20.1', 'sd20.2', 'qd3.86', 'b1.75',
'qf4.86', 'b1.76', 'qd3.87', 'b1.77', 'qf4.87', 'b1s.68', 'sd20.3', 'sd20.4',
'qd3.88', 'b1s.69', 'sf20.1', 'sf20.2', 'qf4.88', 'b1.78', 'qd3.89', 'b1.79',
'qf4.89', 'b1.80', 'qd3.90', 'b1s.70', 'sf20.3', 'sf20.4', 'qf4.90', 'b1s.71',
'sd21.1', 'sd21.2', 'qd3.91', 'b1l.30', 'qf4.91', 'b1l.31', 'qd3.92', 'b1.81',
'qf4.92', 'b1s.72', 'sd21.3', 'sd21.4', 'qd3.93', 'b1s.73', 'sf21.1', 'sf21.2',
'qf4.93', 'b1.82', 'qd3.94', 'b1.83', 'qf4.94', 'b1l.32', 'qd3.95', 'b1s.74',
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'qf4.99', 'b1.88', 'qd3.100', 'b1s.78', 'sf22.3', 'sf22.4', 'qf4.100', 'b1s.79',
'sd23.1', 'sd23.2', 'qd3.101', 'b1.89', 'qf4.101', 'b1l.34', 'qd3.102',
'b1l.35', 'qf4.102', 'b1s.80', 'sd23.3', 'sd23.4', 'qd3.103', 'b1s.81',
'sf23.1', 'sf23.2', 'qf4.103', 'b1.90', 'qd3.104', 'b1.91', 'qf4.104', 'b1.92',
'qd3.105', 'b1s.82', 'sf23.3', 'sf23.4', 'qf4.105', 'b1s.83', 'sd24.1',
'sd24.2', 'qd3.106', 'b1.93', 'qf4.106', 'b1.94', 'qd3.107', 'b1.95', 'qf4.107',
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'b1s.88', 'sd25.3', 'sd25.4', 'qd3.113', 'b1s.89', 'sf25.1', 'sf25.2',
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'b1s.90', 'sf25.3', 'sf25.4', 'qf4.115', 'b1s.91', 'sd26.1', 'sd26.2',
'qd3.116', 'b1l.39', 'qf4.116', 'b1.102', 'qd3.117', 'b1.103', 'qf4.117',
'b1s.92', 'sd26.3', 'sd26.4', 'qd3.118', 'b1s.93', 'sf26.1', 'sf26.2',
'qf4.118', 'b1.104', 'qd3.119', 'b1l.40', 'qf4.119', 'b1l.41', 'qd3.120',
'b1s.94', 'sf26.3', 'sf26.4', 'qf4.120', 'b1s.95', 'sd27.1', 'sd27.2',
'qd3.121', 'b1.105', 'qf4.121', 'b1.106', 'qd3.122', 'b1.107', 'qf4.122',
'b1s.96', 'sd27.3', 'sd27.4', 'qd3.123', 'b1s.97', 'sf27.1', 'sf27.2',
'qf4.123', 'b1.108', 'qd3.124', 'b1.109', 'qf4.124', 'b1.110', 'qd3.125',

'b1s.98', 'sf27.3', 'sf27.4', 'qf4.125', 'b1s.99', 'sd28.1', 'sd28.2',
'qd3.126', 'b1l.42', 'qf4.126', 'b1l.43', 'qd3.127', 'b1.111', 'qf4.127',
'b1s.100', 'sd28.3', 'sd28.4', 'qd3.128', 'b1s.101', 'sf28.1', 'sf28.2',
'qf4.128', 'b1.112', 'qd3.129', 'b1.113', 'qf4.129', 'b1l.44', 'qd3.130',
'b1s.102', 'sf28.3', 'sf28.4', 'qf4.130', 'b1s.103', 'sd29.1', 'sd29.2',
'qd3.131', 'b1.114', 'qf4.131', 'b1.115', 'qd3.132', 'b1.116', 'qf4.132',
'b1s.104', 'sd29.3', 'sd29.4', 'qd3.133', 'b1s.105', 'sf29.1', 'sf29.2',
'qf4.133', 'b1l.45', 'qd3.134', 'b1.117', 'qf4.134', 'b1.118', 'qd3.135',
'b1s.106', 'sf29.3', 'sf29.4', 'qf4.135', 'b1s.107', 'sd30.1', 'sd30.2',
'qd3.136', 'b1.119', 'qf4.136', 'b1l.46', 'qd3.137', 'b1l.47', 'qf4.137',
'b1s.108', 'sd30.3', 'sd30.4', 'qd3.138', 'b1s.109', 'sf30.1', 'sf30.2',
'qf4.138', 'b1.120', 'qd3.139', 'b1.121', 'qf4.139', 'b1.122', 'qd3.140',
'b1s.110', 'sf30.3', 'sf30.4', 'qf4.140', 'b1s.111', 'sd31.1', 'sd31.2',
'qd3.141', 'b1.123', 'qf4.141', 'b1.124', 'qd3.142', 'b1.125', 'qf4.142',
'b1s.112', 'sd31.3', 'sd31.4', 'qd3.143', 'b1s.113', 'sf31.1', 'sf31.2',
'qf4.143', 'b1l.48', 'qd3.144', 'b1l.49', 'qf4.144', 'b1.126', 'qd3.145',
'b1s.114', 'sf31.3', 'sf31.4', 'qf4.145', 'b1s.115', 'sd32.1', 'sd32.2',
'qd3.146', 'b1.127', 'qf4.146', 'b1.128', 'qd3.147', 'b1l.50', 'qf4.147',
'b1s.116', 'sd32.3', 'sd32.4', 'qd3.148', 'b1s.117', 'sf32.1', 'sf32.2',
'qf4.148', 'b1.129', 'qd3.149', 'b1.130', 'qf4.149', 'b1.131', 'qd3.150',
'b1s.118', 'sf32.3', 'sf32.4', 'qf4.150', 'b1s.119', 'sd33.1', 'sd33.2',
'qd3.151', 'b1l.51', 'qf4.151', 'b1.132', 'qd3.152', 'b1.133', 'qf4.152',
'b1s.120', 'sd33.3', 'sd33.4', 'qd3.153', 'b1s.121', 'sf33.1', 'sf33.2',
'qf4.153', 'b1.134', 'qd3.154', 'b1l.52', 'qf4.154', 'b1l.53', 'qd3.155',
'b1s.122', 'sf33.3', 'sf33.4', 'qf4.155', 'b1s.123', 'sd34.1', 'sd34.2',
'qd3.156', 'b1.135', 'qf4.156', 'b1.136', 'qd3.157', 'b1.137', 'qf4.157',
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[7]: `print(lat.line)`

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Some basic functionalities and manipulations can be done

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[8]:  # Get elements of specific type
      quad_sext = lat.sequence.get_class(['Quadrupole', 'Sextupole'])
      print(quad_sext)
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'qd1.641', 'sd130.5', 'sd130.6', 'qf2.641', 'qd1.642', 'qf2.642', 'qd1.643',

'sd130.7', 'sd130.8', 'qf2.643', 'sf130.5', 'sf130.6', 'qd1.644', 'qf2.644',
'qd1.645', 'qf2.645', 'sf130.7', 'sf130.8', 'qd1.646', 'sd131.5', 'sd131.6',
'qf2.646', 'qd1.647', 'qf2.647', 'qd1.648', 'sd131.7', 'sd131.8', 'qf2.648',
'sf131.5', 'sf131.6', 'qd1.649', 'qf2.649', 'qd1.650', 'qf2.650', 'sf131.7',
'sf131.8', 'qd1.651', 'sd132.5', 'sd132.6', 'qf2.651', 'qd1.652', 'qf2.652',
'qd1.653', 'sd132.7', 'sd132.8', 'qf2.653', 'sf132.5', 'sf132.6', 'qd1.654',
'qf2.654', 'qd1.655', 'qf2.655', 'sf132.7', 'sf132.8', 'qm6.2', 'qm5i.2',
'qm4i.2', 'qm5.2', 'qm4.2', 'qm3i.2', 'qm2i.2', 'qm1i.2', 'qm0.2', 'qm1.2',
'qm2.2', 'qm9.2', 'qm8.2', 'qm7.2', 'qma.2', 'qd1.656', 'sd133.5', 'sd133.6',
'qf2.656', 'qd1.657', 'qf2.657', 'qd1.658', 'sd133.7', 'sd133.8', 'qf2.658',
'sf133.5', 'sf133.6', 'qd1.659', 'qf2.659', 'qd1.660', 'qf2.660', 'sf133.7',
'sf133.8', 'qd1.661', 'sd134.5', 'sd134.6', 'qf2.661', 'qd1.662', 'qf2.662',
'qd1.663', 'sd134.7', 'sd134.8', 'qf2.663', 'sf134.5', 'sf134.6', 'qd1.664',
'qf2.664', 'qd1.665', 'qf2.665', 'sf134.7', 'sf134.8', 'qd1.666', 'sd135.5',
'sd135.6', 'qf2.666', 'qd1.667', 'qf2.667', 'qd1.668', 'sd135.7', 'sd135.8',
'qf2.668', 'sf135.5', 'sf135.6', 'qd1.669', 'qf2.669', 'qd1.670', 'qf2.670',
'sf135.7', 'sf135.8', 'qd1.671', 'sd136.5', 'sd136.6', 'qf2.671', 'qd1.672',
'qf2.672', 'qd1.673', 'sd136.7', 'sd136.8', 'qf2.673', 'sf136.5', 'sf136.6',
'qd1.674', 'qf2.674', 'qd1.675', 'qf2.675', 'sf136.7', 'sf136.8', 'qd1.676',
'sd137.5', 'sd137.6', 'qf2.676', 'qd1.677', 'qf2.677', 'qd1.678', 'sd137.7',
'sd137.8', 'qf2.678', 'sf137.5', 'sf137.6', 'qd1.679', 'qf2.679', 'qd1.680',
'qf2.680', 'sf137.7', 'sf137.8', 'qd1.681', 'sd138.5', 'sd138.6', 'qf2.681',
'qd1.682', 'qf2.682', 'qd1.683', 'sd138.7', 'sd138.8', 'qf2.683', 'sf138.5',
'sf138.6', 'qd1.684', 'qf2.684', 'qd1.685', 'qf2.685', 'sf138.7', 'sf138.8',
'qd1.686', 'sd139.5', 'sd139.6', 'qf2.686', 'qd1.687', 'qf2.687', 'qd1.688',
'sd139.7', 'sd139.8', 'qf2.688', 'sf139.5', 'sf139.6', 'qd1.689', 'qf2.689',
'qd1.690', 'qf2.690', 'sf139.7', 'sf139.8', 'qd1.691', 'sd140.5', 'sd140.6',
'qf2.691', 'qd1.692', 'qf2.692', 'qd1.693', 'sd140.7', 'sd140.8', 'qf2.693',
'sf140.5', 'sf140.6', 'qd1.694', 'qf2.694', 'qd1.695', 'qf2.695', 'sf140.7',
'sf140.8', 'qd1.696', 'sd141.5', 'sd141.6', 'qf2.696', 'qd1.697', 'qf2.697',
'qd1.698', 'sd141.7', 'sd141.8', 'qf2.698', 'sf141.5', 'sf141.6', 'qd1.699',
'qf2.699', 'qd1.700', 'qf2.700', 'sf141.7', 'sf141.8', 'qd1.701', 'sd142.5',
'sd142.6', 'qf2.701', 'qd1.702', 'qf2.702', 'qd1.703', 'sd142.7', 'sd142.8',
'qf2.703', 'sf142.5', 'sf142.6', 'qd1.704', 'qf2.704', 'qd1.705', 'qf2.705',
'sf142.7', 'sf142.8', 'qd1.706', 'sd143.5', 'sd143.6', 'qf2.706', 'qd1.707',
'qf2.707', 'qd1.708', 'sd143.7', 'sd143.8', 'qf2.708', 'sf143.5', 'sf143.6',
'qd1.709', 'qf2.709', 'qd1.710', 'qf2.710', 'sf143.7', 'sf143.8', 'qd1.711',
'sd144.5', 'sd144.6', 'qf2.711', 'qd1.712', 'qf2.712', 'qd1.713', 'sd144.7',
'sd144.8', 'qf2.713', 'sf144.5', 'sf144.6', 'qd1.714', 'qf2.714', 'qd1.715',
'qf2.715', 'sf144.7', 'sf144.8', 'qd1.716', 'sd145.5', 'sd145.6', 'qf2.716',
'qd1.717', 'qf2.717', 'qd1.718', 'sd145.7', 'sd145.8', 'qf2.718', 'sf145.5',
'sf145.6', 'qd1.719', 'qf2.719', 'qd1.720', 'qf2.720', 'sf145.7', 'sf145.8',
'qd1.721', 'sd146.5', 'sd146.6', 'qf2.721', 'qd1.722', 'qf2.722', 'qd1.723',
'sd146.7', 'sd146.8', 'qf2.723', 'sf146.5', 'sf146.6', 'qd1.724', 'qf2.724',
'qd1.725', 'qf2.725', 'sf146.7', 'sf146.8', 'qd1.726', 'sd147.5', 'sd147.6',
'qf2.726', 'qd1.727', 'qf2.727', 'qd1.728', 'sd147.7', 'sd147.8', 'qf2.728',
'sf147.5', 'sf147.6', 'qd1.729', 'qf2.729', 'qd1.730', 'qf2.730', 'sf147.7',
'sf147.8', 'ql4.2', 'ql3.2', 'ql2.2', 'ql1.2', 'qb6.2', 'qb5.2', 'qb4.2',

```
'qb3.2', 'qb2.2', 'qb1.2', 'sy2l.3', 'sy2l.4', 'qy2l.3', 'qy1l.2', 'qy2l.4',
'sy1l.3', 'sy1l.4', 'qc7l.2', 'qc6l.2', 'qc5l.2', 'qc4l.2', 'qc3l.2', 'qt1l.2',
'qc2l2.2', 'qc2l1.2', 'qc1l3.2', 'qc1l2.2', 'qc1l1.4']
```

[9]:
```python
# Find element by name
print(lat.sequence['bg6.1'])
```

```
RectangularBend(bg6.1, _chord_length=14.771766983402289, _rbend_e1=-0.0,
_rbend_e2=-0.0, angle=-0.001228093107925068, e1=0.000614046553962534,
e2=0.000614046553962534, k0=0.0, num_slices=1, id_data=ElementID(slot_id=None,
assembly_id=None), parameter_data=ElementParameterData(polarity=0.0,
calibration=0.0, kmax=None, kmin=None, tilt=0.0),
position_data=ElementPosition(length=14.771767911692594, radiation_length=0.0,
location=1097.748587991472, reference=0.0, reference_element='', mech_sep=0.0),
aperture_data=None, pyat_data=None)
```

[10]:
```python
# Select element ranges using names or indices
print(lat.sequence['qg7.1':'qd3.4'])
```

```
['qg7.1', 'bg8.1', 'qg8.1', 'bg9.1', 'qg9.1', 'bga.1', 'fd0a.1', 'sd3.1',
'sd3.2', 'qd3.1', 'b1.1', 'qf4.1', 'b1.2', 'qd3.2', 'b1l.1', 'qf4.2', 'b1s.1',
'sd3.3', 'sd3.4', 'qd3.3', 'b1s.2', 'sf3.1', 'sf3.2', 'qf4.3', 'b1.3']
```

[11]:
```python
print(lat.sequence[1150:1200])
```

```
['b1.158', 'qd3.182', 'b1l.62', 'qf4.182', 'b1s.144', 'sd39.3', 'sd39.4',
'qd3.183', 'b1s.145', 'sf39.1', 'sf39.2', 'qf4.183', 'b1.159', 'qd3.184',
'b1.160', 'qf4.184', 'b1.161', 'qd3.185', 'b1s.146', 'sf39.3', 'sf39.4',
'qf4.185', 'b1s.147', 'sd40.1', 'sd40.2', 'qd3.186', 'b1l.63', 'qf4.186',
'b1.162', 'qd3.187', 'b1.163', 'qf4.187', 'b1s.148', 'sd40.3', 'sd40.4',
'qd3.188', 'b1s.149', 'sf40.1', 'sf40.2', 'qf4.188', 'b1.164', 'qd3.189',
'b1l.64', 'qf4.189', 'b1l.65', 'qd3.190', 'b1s.150', 'sf40.3', 'sf40.4',
'qf4.190']
```

[23]:
```python
# Obtain s positions of Lattice
print(lat.sequence[1150:1200].names)
print(lat.sequence[1150:1200].positions)
```

```
['mq.24r2.b1', 'ms.24r2.b1', 'mcbh.24r2.b1', 'mb.a25r2.b1', 'mcs.a25r2.b1',
'mco.25r2.b1', 'mcd.25r2.b1', 'mb.b25r2.b1', 'mcs.b25r2.b1', 'mb.c25r2.b1',
'mcs.c25r2.b1', 'bpm.25r2.b1', 'mo.25r2.b1', 'mq.25r2.b1', 'ms.25r2.b1',
'mcbv.25r2.b1', 'mco.a26r2.b1', 'mcd.a26r2.b1', 'mb.a26r2.b1', 'mcs.a26r2.b1',
'mb.b26r2.b1', 'mcs.b26r2.b1', 'mco.b26r2.b1', 'mcd.b26r2.b1', 'mb.c26r2.b1',
'mcs.c26r2.b1', 'bpm.26r2.b1', 'mo.26r2.b1', 'mq.26r2.b1', 'ms.26r2.b1',
'mcbh.26r2.b1', 'mb.a27r2.b1', 'mcs.a27r2.b1', 'mco.27r2.b1', 'mcd.27r2.b1',
'mb.b27r2.b1', 'mcs.b27r2.b1', 'mb.c27r2.b1', 'mcs.c27r2.b1', 'bpm.27r2.b1',
'mqs.27r2.b1', 'mq.27r2.b1', 'ms.27r2.b1', 'mcbv.27r2.b1', 'mco.a28r2.b1',
'mcd.a28r2.b1', 'mb.a28r2.b1', 'mcs.a28r2.b1', 'mb.b28r2.b1', 'mcs.b28r2.b1']
[4463.87803277622, 4465.77303277622, 4466.36603277622, 4474.942785426799,
4482.366538077376, 4483.116538077376, 4483.118038077377, 4490.602290727955,
```

```
4498.026043378533, 4506.261796029112, 4513.68554867969, 4514.56454867969,
4515.31554867969, 4517.32654867969, 4519.22154867969, 4519.81454867969,
4520.905548679691, 4520.90704867969, 4528.391301330269, 4535.815053980848,
4544.050806631426, 4551.474559282004, 4552.224559282004, 4552.226059282004,
4559.710311932582, 4567.134064583161, 4568.013064583161, 4568.764064583161,
4570.775064583161, 4572.670064583161, 4573.263064583161, 4581.839817233739,
4589.263569884318, 4590.013569884318, 4590.015069884317, 4597.499322534896,
4604.923075185475, 4613.158827836053, 4620.582580486632, 4621.461580486632,
4622.215580486632, 4624.223580486631, 4626.118580486632, 4626.711580486632,
4627.802580486632, 4627.804080486631, 4635.2883331372095, 4642.712085787788,
4650.9478384383665, 4658.371591088945]
```

[24]:
```python
# Teapot slicing using default 1 slice
sliced_lat = lat.sliced

# Change slice number
quad_sext = lat.sequence.get_class(['Quadrupole', 'Sextupole'])
for name, el in quad_sext.items():
    el.num_slices = 5

for name, el in lat.sequence.find_elements("mqxa*").items():
    el.num_slices = 10

sliced_lat = lat.sliced
print(sliced_lat.sequence[1:10])
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
<ipython-input-24-09b0593ec9bb> in <module>
      1 # Teapot slicing using default 1 slice
----> 2 sliced_lat = lat.sliced
      3
      4 # Change slice number
      5 quad_sext = lat.sequence.get_class(['Quadrupole', 'Sextupole'])

~/git-projects/xsequence/xsequence/lattice.py in sliced(self)
    160     @property
    161     def sliced(self):
--> 162         return Lattice(self.name, self._slice_lattice(), key='sequence'
    163
    164     def __str__(self):

~/git-projects/xsequence/xsequence/lattice.py in _slice_lattice(self)
    154
    155     def _slice_lattice(self):
--> 156         thin_list = [el.slice_element() for name, el in self.sequence.
    ↪items()]
```

```
    157              thin_list = [item for sublist in thin_list for item in sublist]
    158              return {el.name:el for el in thin_list}

 ~/git-projects/xsequence/xsequence/lattice.py in <listcomp>(.0)
    154
    155      def _slice_lattice(self):
--> 156              thin_list = [el.slice_element() for name, el in self.sequence.
 ↪items()]
    157              thin_list = [item for sublist in thin_list for item in sublist]
    158              return {el.name:el for el in thin_list}


 ~/git-projects/xsequence/xsequence/elements.py in slice_element(self)
    457
    458      def slice_element(self):
--> 459              kick_sliced = self.kick / self.num_slices
    460              return self._get_sliced_element(method='uniform',
    461                                       thin_class=HKicker,␣
 ↪kick=kick_sliced)

 AttributeError: 'HKicker' object has no attribute 'num_slices'
```

Quick optics calculations can be done for checks, currently without radiation and tapering. Note no matchin is done currently, so should be updated

```
[14]: df_mad = lat.optics(engine='madx', drop_drifts=True)
      df_pyat = lat.optics(engine='pyat', drop_drifts=True)
```

```
      ++++++++++++++++++++++++++++++++++++++++++++++++
      +     MAD-X 5.07.00  (64 bit, Linux)       +
      + Support: mad@cern.ch, http://cern.ch/mad +
      + Release   date: 2021.05.03               +
      + Execution date: 2021.11.09 15:43:47      +
      ++++++++++++++++++++++++++++++++++++++++++++++++
      enter Twiss module

++++++ table: summ

            length               orbit5                 alfa              gammatr
      97756.02182                  -0      7.398962693e-06          367.6330787


               q1                  dq1               betxmax                dxmax
           389.13         0.1866038761          2269.984083         0.5357848525


            dxrms               xcomax                xcorms                   q2
     0.1237740782                    0                    0          389.2000001


              dq2               betymax                dymax                dyrms
```

0.2716027517	8776.702388	0	0

ycomax	ycorms	deltap	synch_1
0	0	0	0

synch_2	synch_3	synch_4	synch_5
0	0	0	0

synch_6	synch_8	nflips	
0	0	0	

```
[15]: %matplotlib inline
      from matplotlib.pyplot import plot, show
      from xsequence.helpers.fcc_plots import fcc_axes

      ax, = plot(df_mad['s'], df_mad['betx'])
      ax, = plot(df_pyat['s'], df_pyat['betx'])
      show()
```

A useful tool to debug changes and track differences between lattices. In this case the difference between an FCC-ee Higgs physics lattice from SAD and from MAD-X.

```
[16]: from xsequence.helpers.compare_lattices import compare_lattices
      compare_lattices(lat_sad, lat_mad)
```

```
-- Comparing global



---- Checking lattice names


Different Lattice names


        ring  <-->  1000013



---- Checking sequence lengths
```

Identical sequence lengths: 8708

-- Comparing elements

---- Checking element names

Element 'ring$start' is not in Lattice 2

Element 'ring$end' is not in Lattice 2

Element 'l000013$start' is not in Lattice 1

Element 'l000013$end' is not in Lattice 1

---- Checking element attributes

Element 'bsep.1' not equal between lattices

    Attribute '_rbend_e1' is not equal

        -0.0002054794520547945 <--> 0.0

    Attribute 'e1' is not equal

        0.0 <--> 0.0002054794520547945

Element 'bsep.2' not equal between lattices

```
        Attribute '_rbend_e1' is not equal

        -0.0002054794520547945  <-->  0.0

        Attribute 'e1' is not equal

        0.0  <-->  0.0002054794520547945
```

[16]: 0

The lattice can be exported to cpymad, pyat and xline.

[17]:
```python
madx = lat.to_cpymad()
pyat = lat.to_pyat()
line = lat.to_xline()
```

```
    +++++++++++++++++++++++++++++++++++++++++++++
    +     MAD-X 5.07.00  (64 bit, Linux)      +
    + Support: mad@cern.ch, http://cern.ch/mad +
    + Release   date: 2021.05.03              +
    + Execution date: 2021.11.09 15:43:59     +
    +++++++++++++++++++++++++++++++++++++++++++++
```

The 'xdeps' dependencies package from R. de Maria has been implemented into Lattices to import dependencies from cpymad.

Dependency manager is contained in: - lat.manager

The references to the different objects are stored as: - lat.vref –> Reference to variables - lat.sref –> Reference to sequence

[18]:
```python
from cpymad.madx import Madx
cpymad_ins = Madx(stdout=False)
cpymad_ins.call("lhc.seq")
cpymad_ins.call("optics.madx")

lat = Lattice.from_cpymad(cpymad_ins, seq_name="lhcb1",
  dependencies=True)

print(lat.sequence["mqxa.1r1"].k1)
```

```
0.00854562504357
```

[19]:
```python
lat.vref["kqx.r1"] = 0.01
print(lat.sequence["mqxa.1r1"].k1)
```

```
0.01
```

New knobs can be created to tune specific magnets. Here, a new knob called 'mqxa_knob' is created that adds a value to the strengths of all 'mqxa' elements.

- element.k1 = current_expression + mqxa_knob

Note the that the syntax is still under development and will be polished to offer much more intuitive functionalities.

```
[20]: for el in lat.sequence.find_elements("mqxa*"):
          lat.sref[el].k1 = lat.manager.tasks[lat.sref[el].k1].expr + lat.
       ↪vref["mqxa_knob"]


      for name, el in lat.sequence.find_elements("mqxa*").items():
          print(el.k1)
```

```
0.01
0.01
0.009509815813
0.009509815813
-0.009509815813
-0.009509815813
-0.00854562504357
-0.00854562504357
0.00854562504357
0.00854562504357
0.009509815813
0.009509815813
-0.009509815813
-0.009509815813
-0.00854562504357
-0.00854562504357
```

The new expression for element 'mqxa.1l1' is now:

```
[21]: print(lat.manager.tasks[lat.sref["mqxa.1l1"].k1].expr)
```

```
((v['kqx.1l1']+v['ktqx1.1l1'])+v['mqxa_knob'])
```

A change of the knob value will result in the desired change of k1 strengths.

```
[22]: lat.vref["mqxa_knob"] = 0.015


      for name, el in lat.sequence.find_elements("mqxa*").items():
          print(el.k1)
```

```
0.025
0.025
0.024509815812999998
0.024509815812999998
0.005490184186999999
0.005490184186999999
```

```
0.00645437495643
0.00645437495643
0.02354562504357
0.02354562504357
0.024509815812999998
0.024509815812999998
0.005490184186999999
0.005490184186999999
0.00645437495643
0.00645437495643
```

[ ]: