```
BAB = paths.SequentialEnsemble([
    paths.LengthEnsemble(1) & paths.AllInXEnsemble(B),
    paths.PartInXEnsemble(A) & paths.AllOutXEnsemble(B),
    paths.LengthEnsemble(1) & paths.AllInXEnsemble(B)
])

AB = paths.SequentialEnsemble([
    paths.LengthEnsemble(1) & paths.AllInXEnsemble(A),
    paths.OptionalEnsemble(paths.AllOutXEnsemble(B)),
    paths.LengthEnsemble(1) & paths.AllInXEnsemble(B)
])

BAB_paths = BAB.split(trajectory)
AB_paths = [AB.split(segment)[0] for segment in BAB_paths]
```

You may be able to write faster code…

… but it's hard to write code faster!

OpenPathSampling …

… **enables sampling and analysis** of arbitrary path ensembles

… **is great for prototyping new analyses** or one-off analysis using path ensembles

… **is great for beginners**, because it makes common path sampling tasks easy

… **is great for methods developers**, because it is extremely flexible



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http://openpathsampling.org
http://github.com/openpathsampling/openpathsampling