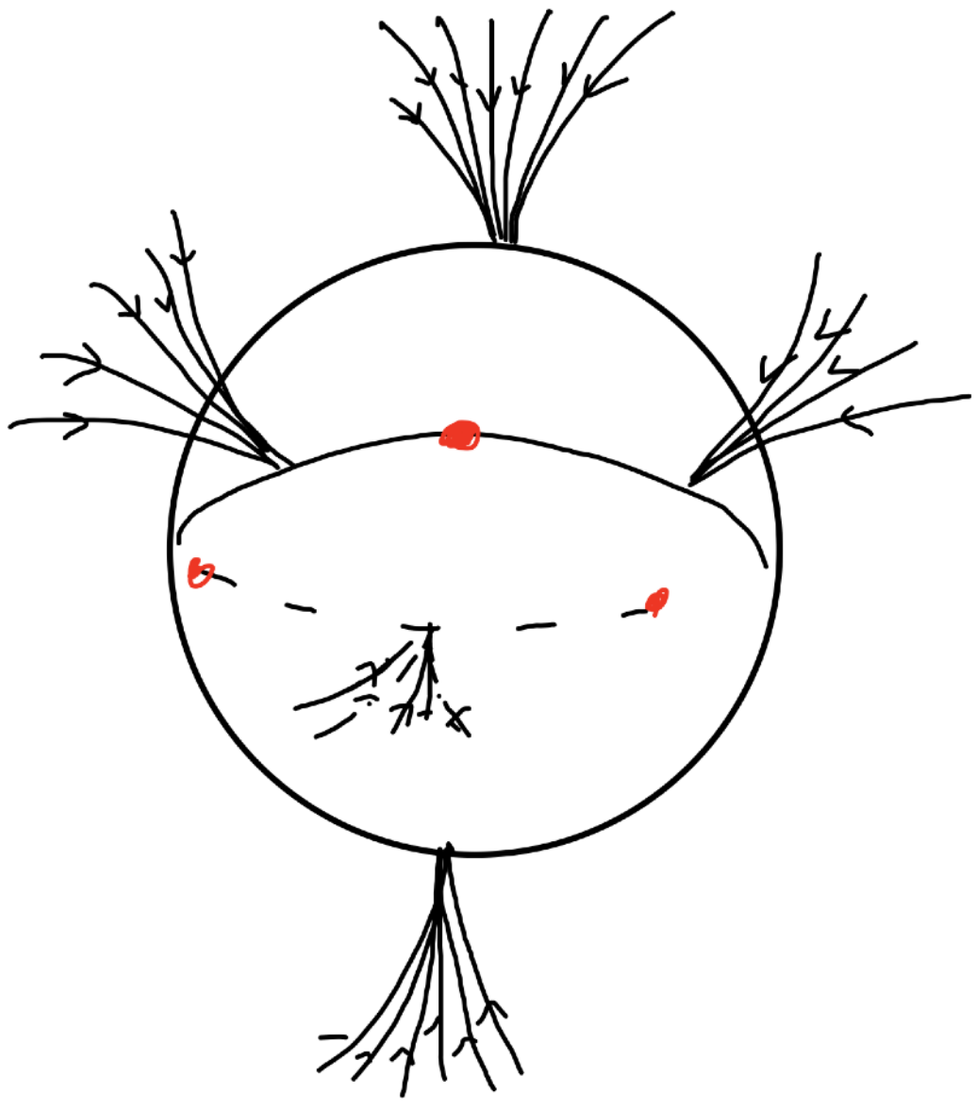
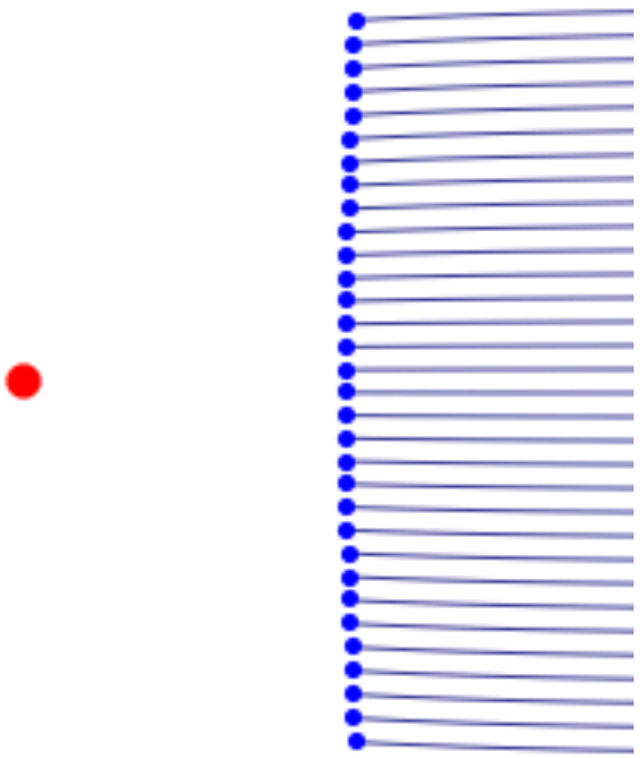
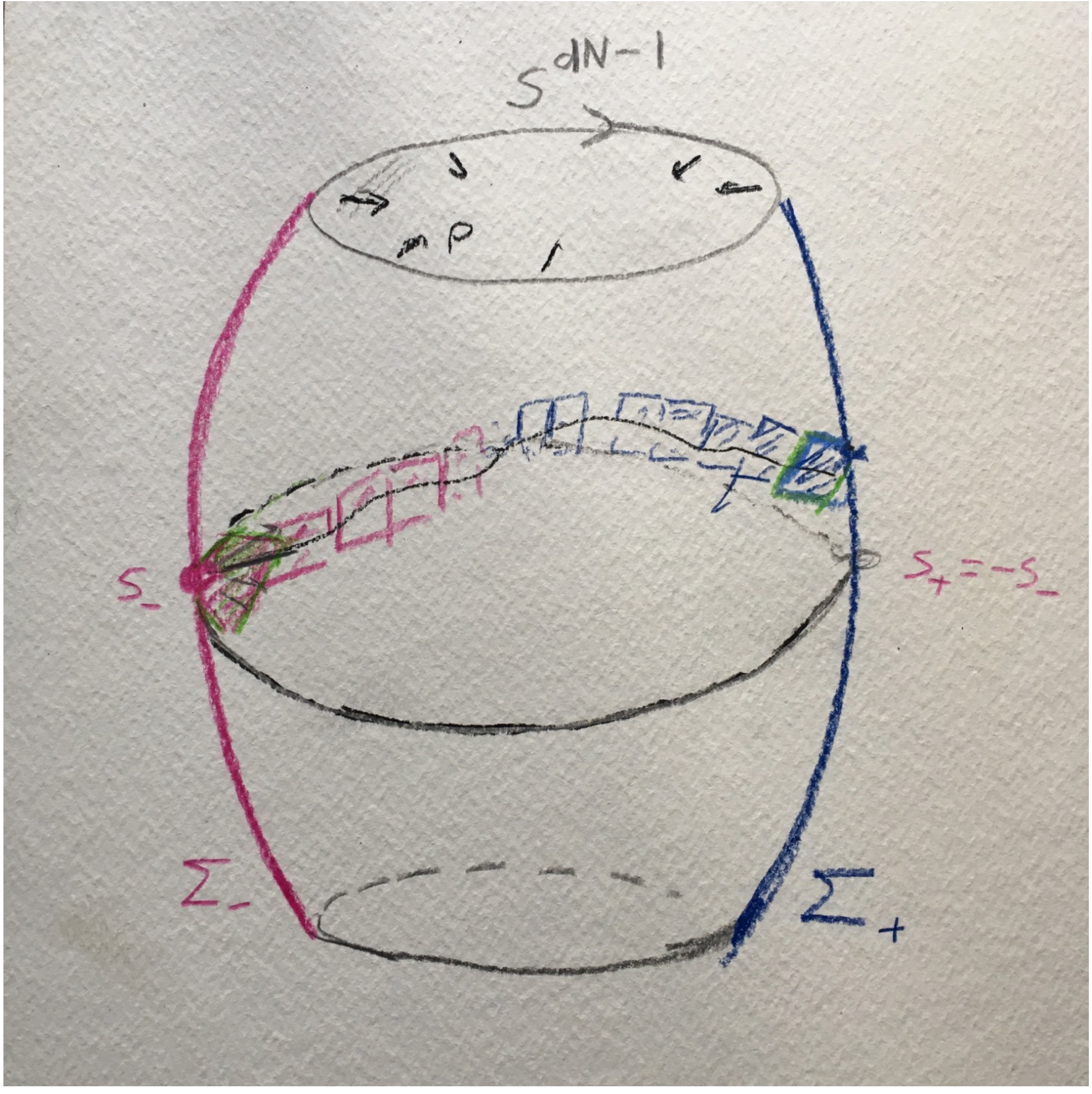
Three Lagrangian manifolds
w singularities in the
three (or N-) body problem.

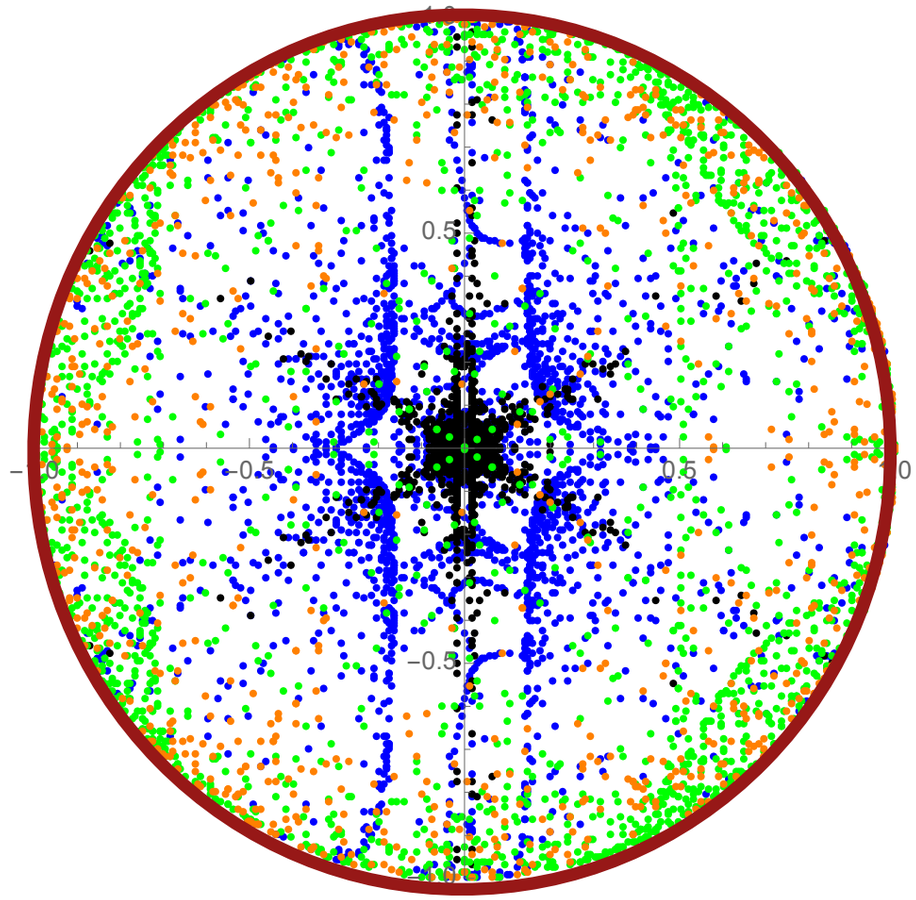
for the Eva Miranda invitational Popcorn talk
on the US Independence day of 2022, the
first allegedly `post' pandemic summer after 2019



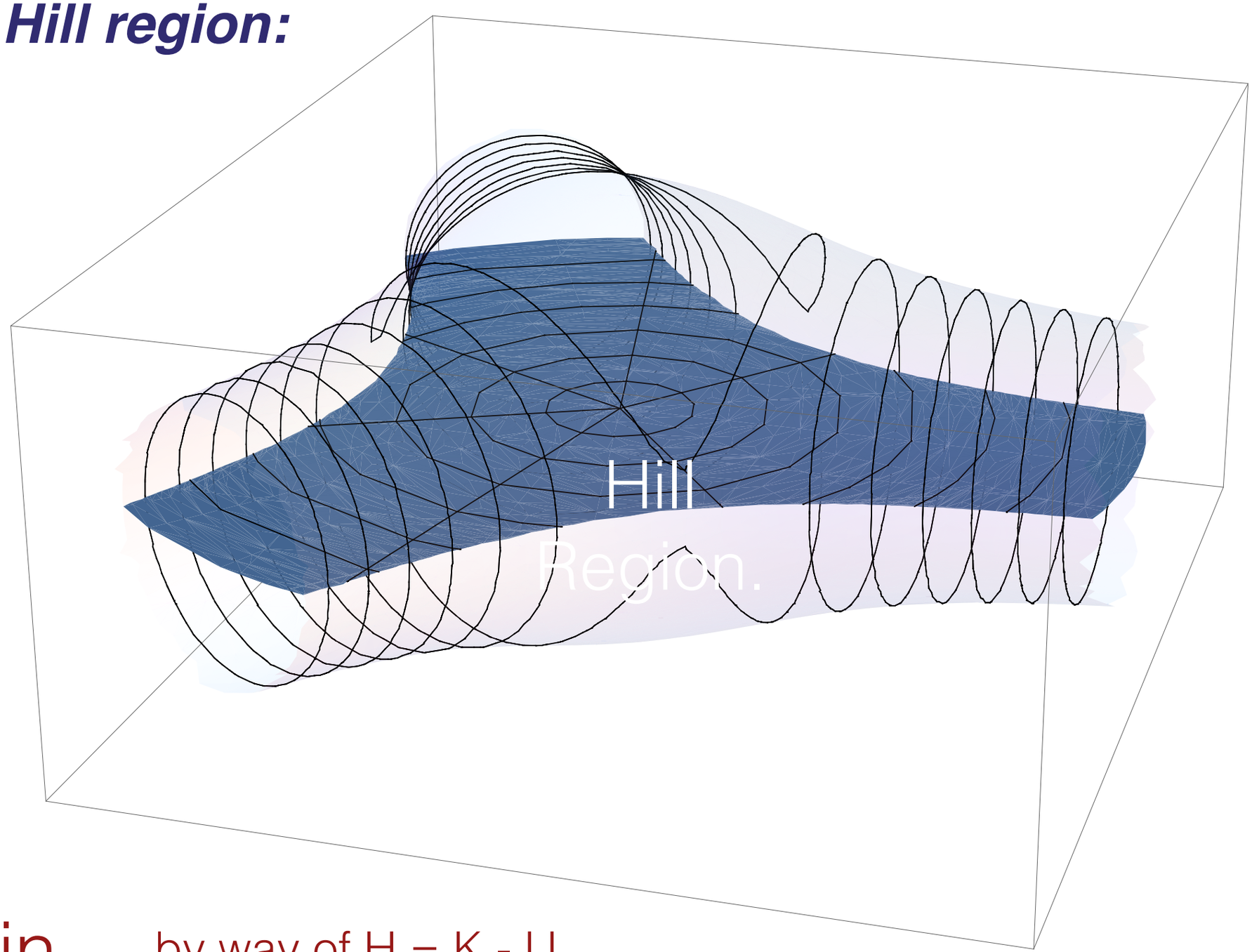
Rutherford:




S^{dN-1}
S_-
$S_+ = -S_-$
Σ_-
Σ_+

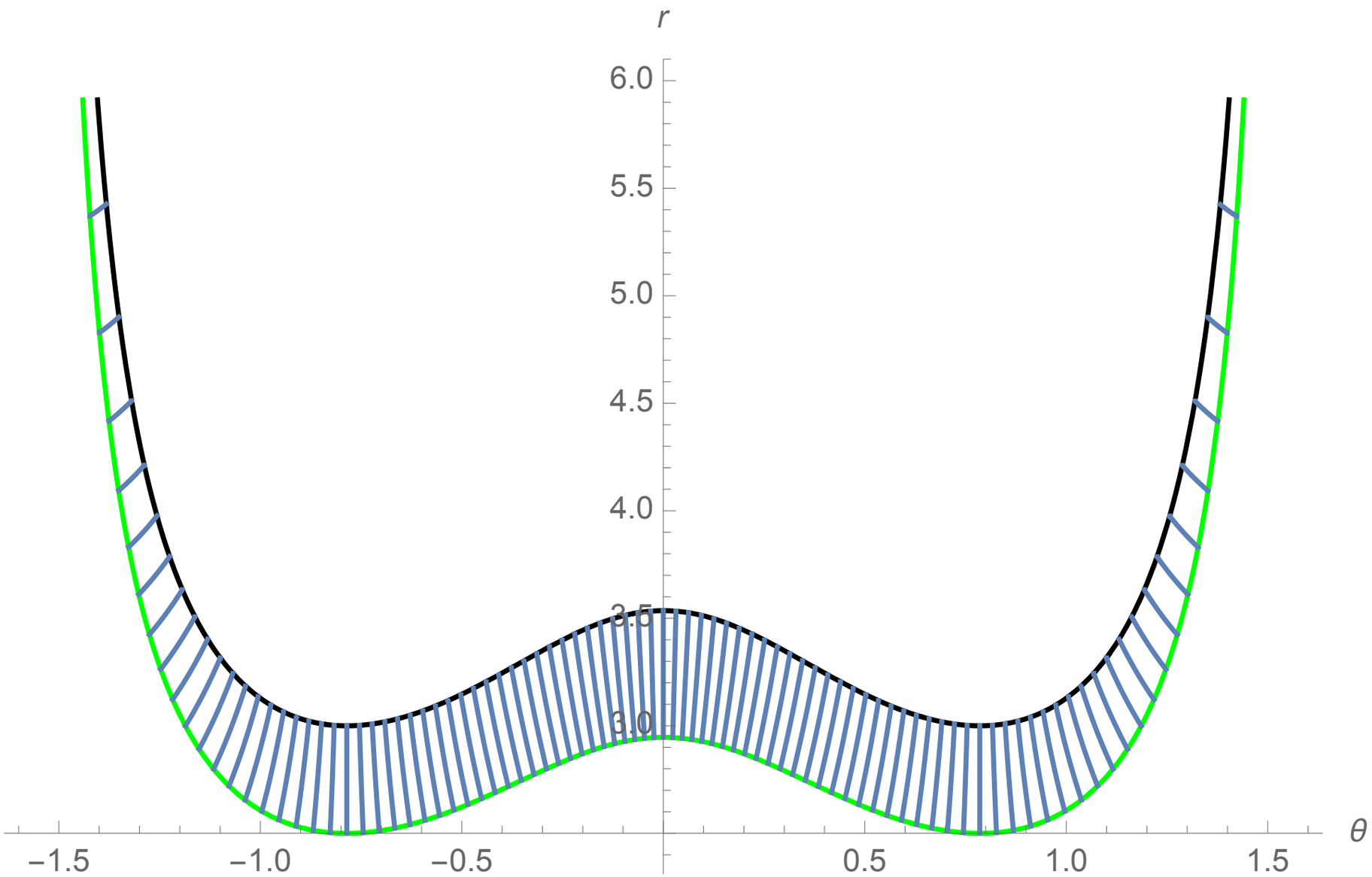

0.5
−0.5
0.5
−0.5

Within Hill region:

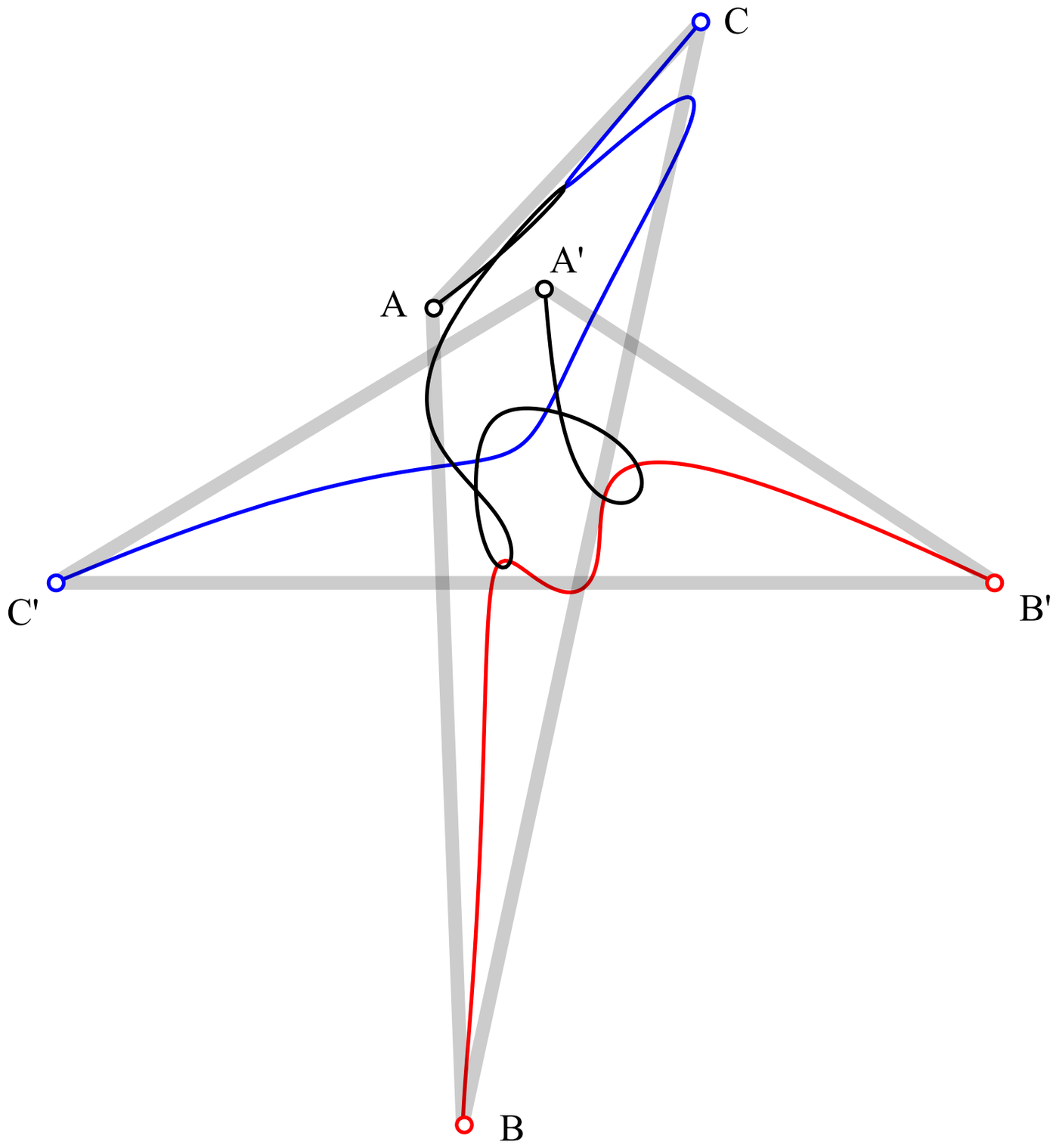


Explain by way of H = K - U

Fix energy = H =-h < 0. Hill region:part of shape space for which there is a v and H(q,v) = -h. Domain where motion occurs. Identical to region with U(q) > +h



Collar nbhd via flow; Isosceles problem, courtesy Moeckel



to animations …

REST ON THE BOARD …