フェルミ粒子

第1世代 第2世代 第3世代 u チャーム クォーク アップ クォーク トップ クォーク 大 b ストレンジクォーク ボトム クォーク 電子 タウ粒子 ミュー粒子 ν_{μ} $u_{ au}$ ue 電子 ミュー タウ ニュートリノ ニュートリノ ニュートリノ

ゲージ粒子



ヒッグス粒子

W+

W-

Н ヒッグス粒子

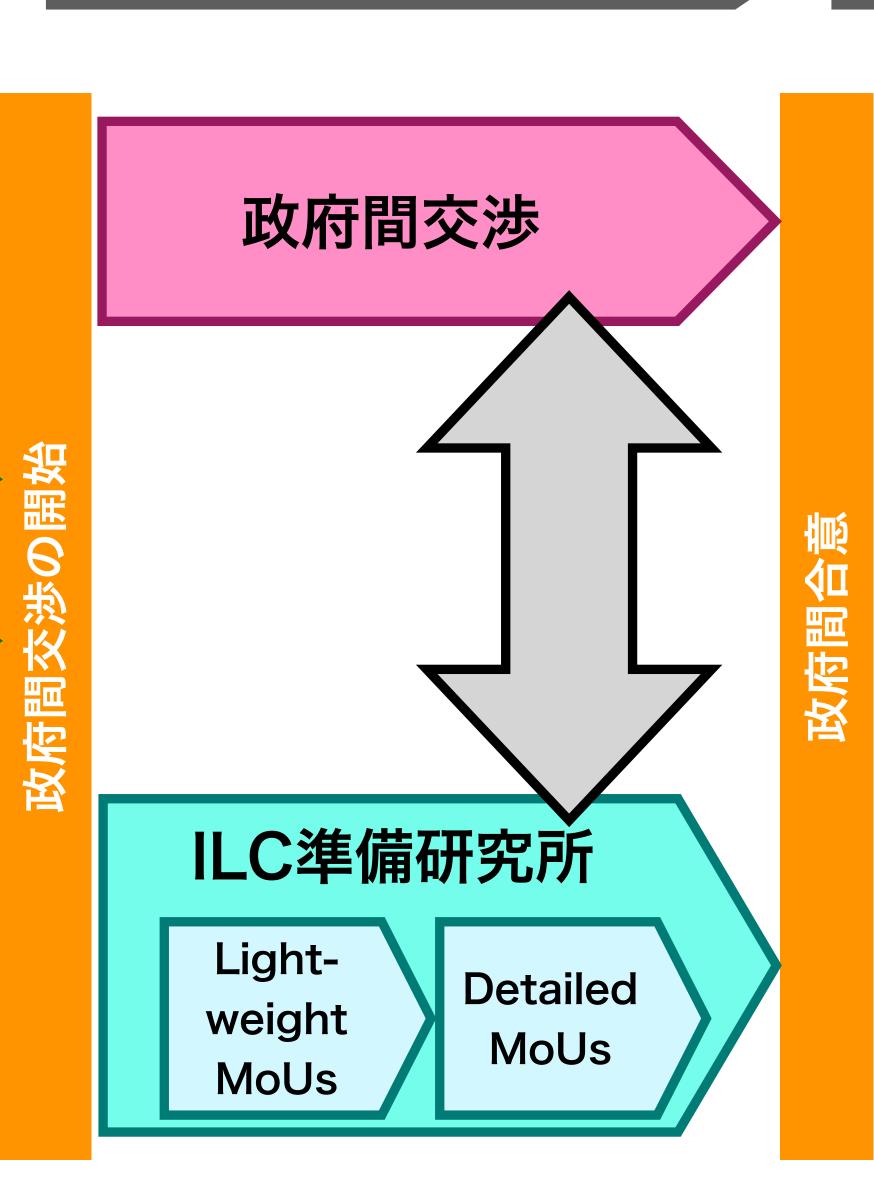
政府間議論

European Strategy for Particle Physicsのアップデート

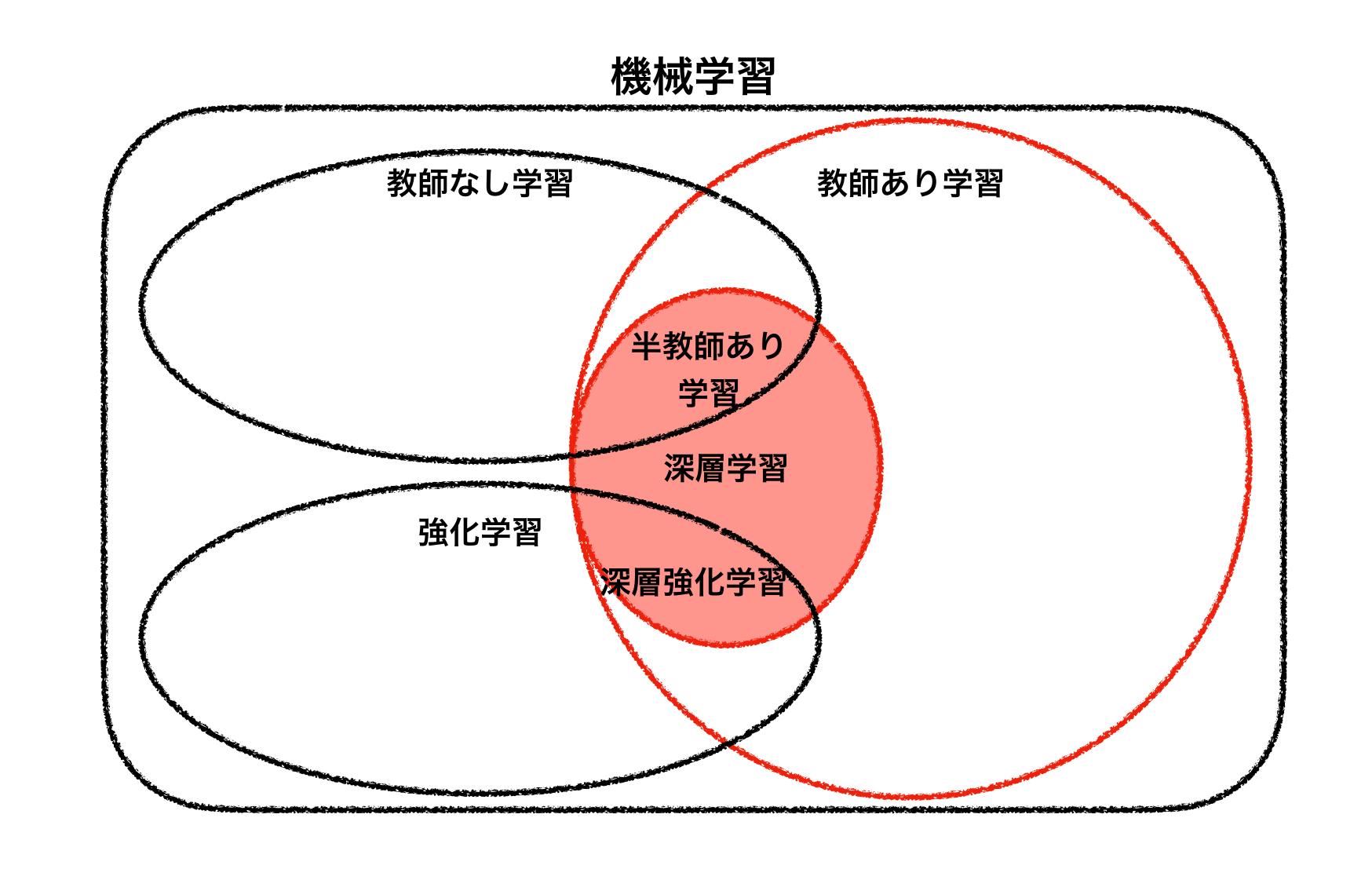
日本学術会議のマスタープラン

ILCの活動

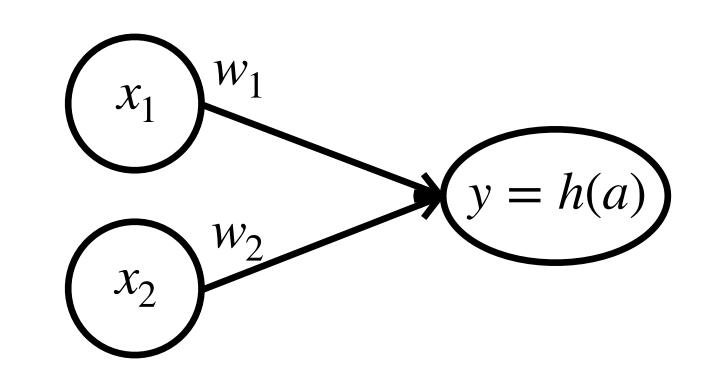
- LCB / LCC
- KEK Planning Office for ILC etc.

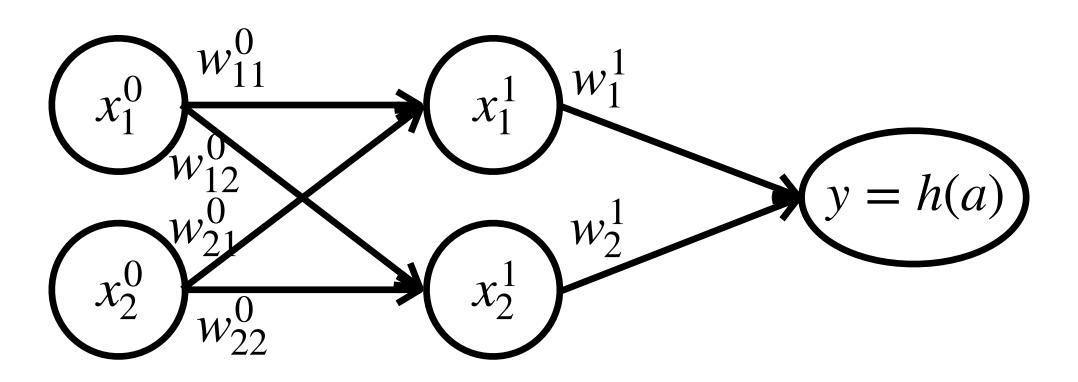


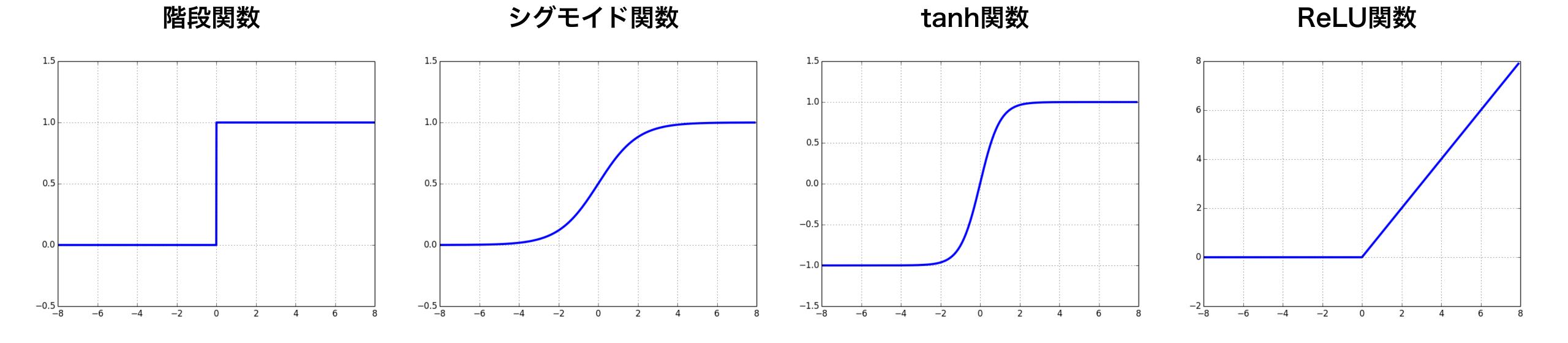
ILC Laboratory 運転 建設

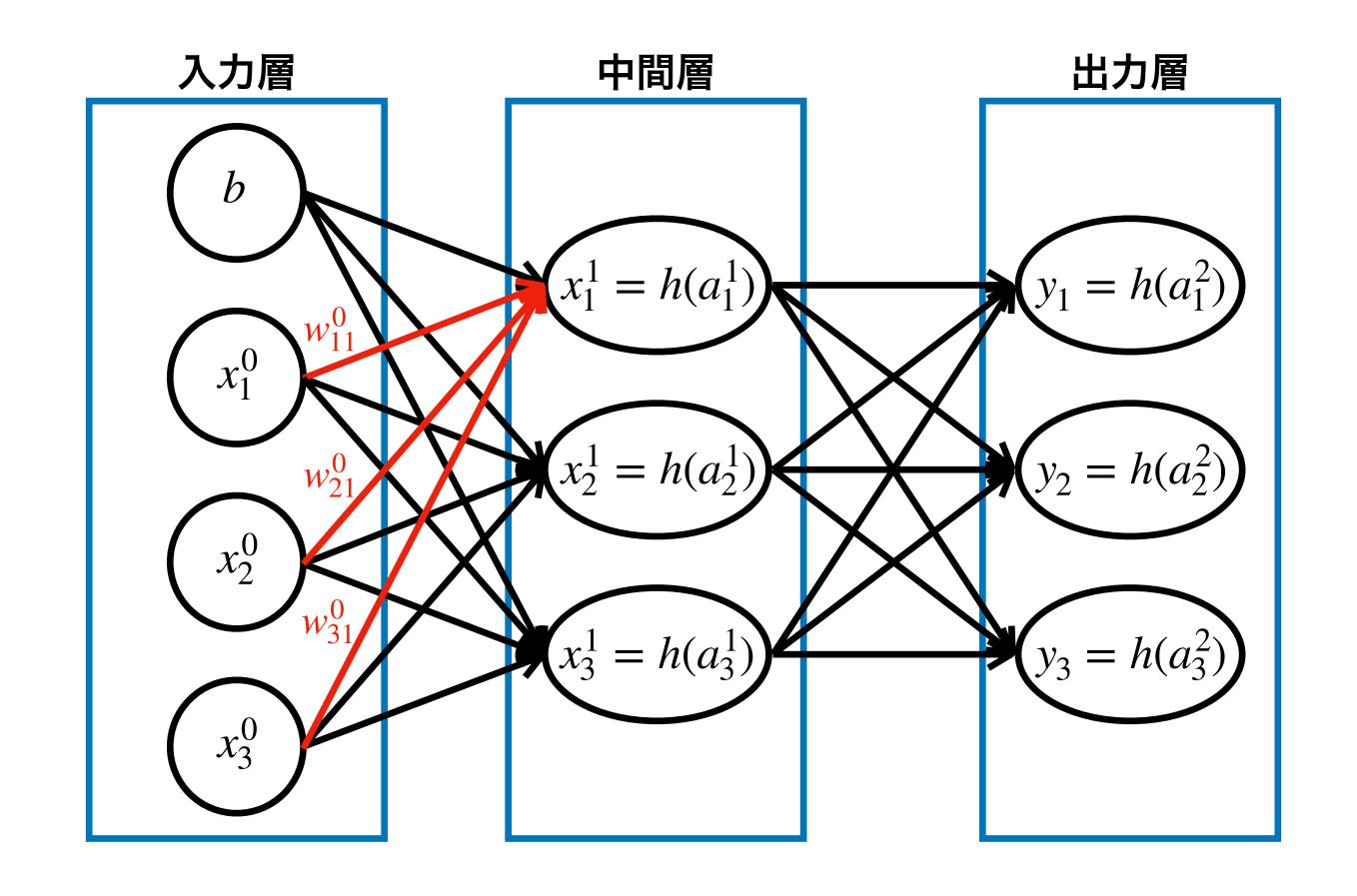


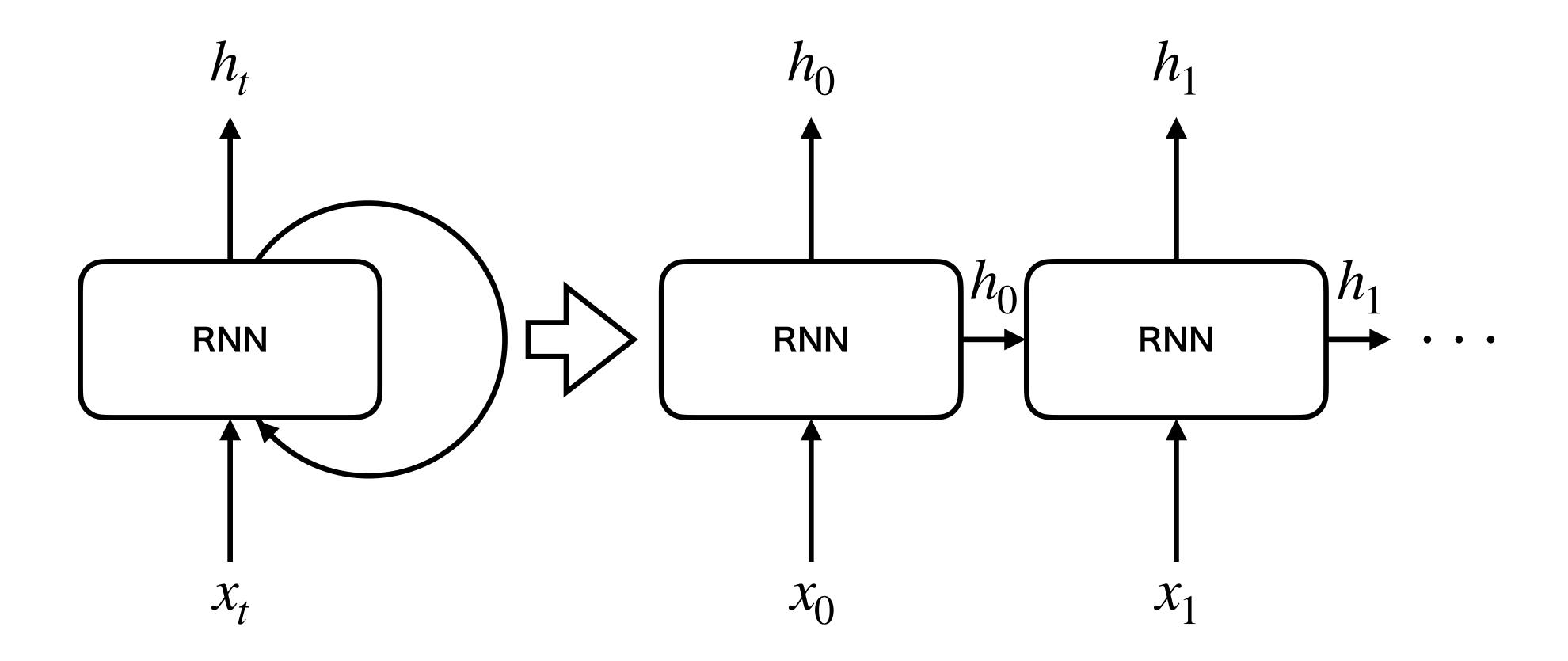
現行の手法 深層学習 ジェット中の粒子の運動量 サブモデル ジェット中の粒子の運動量 置き換え 崩壊点検出 Secondary Vertexの再構成 く カットベース ジェットクラスタリング ジェットクラスタリング 数值計算 フレーバータギング 🗲 フレーバータギング 信号と背景事象の分離 信号と背景事象の分離 物理解析 物理解析

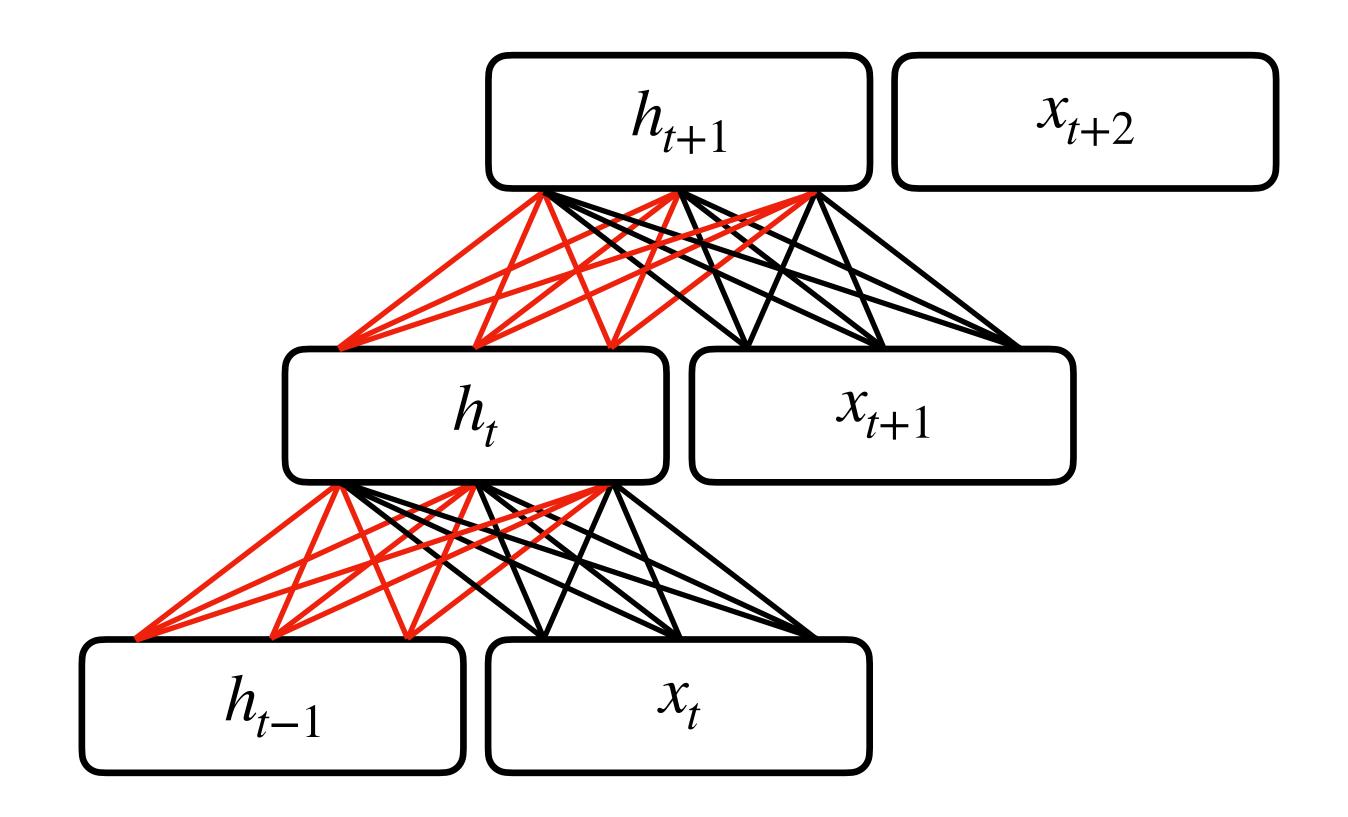


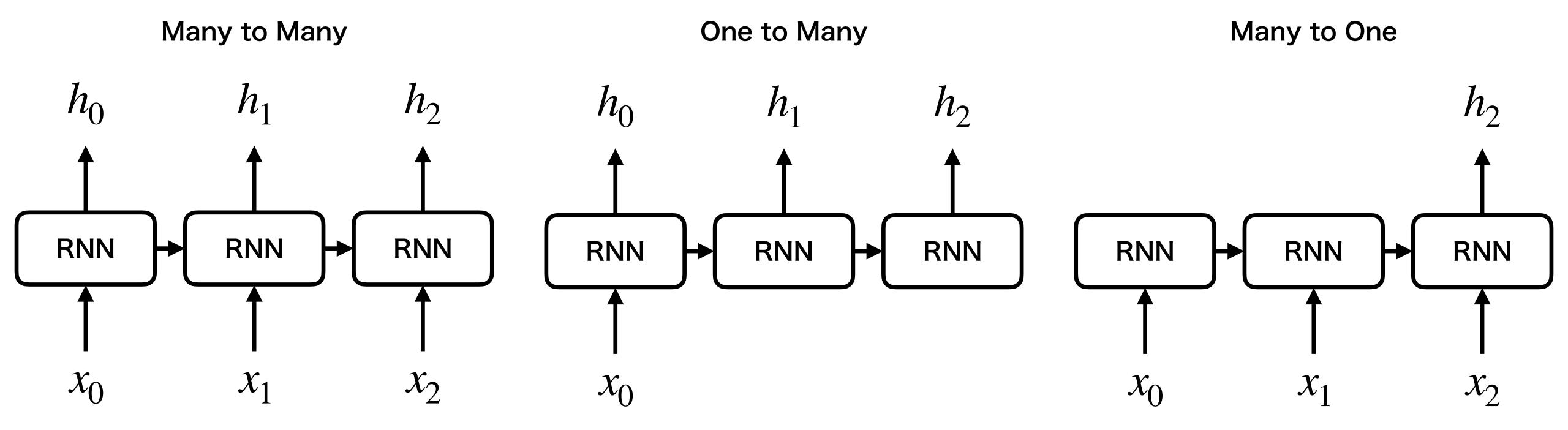


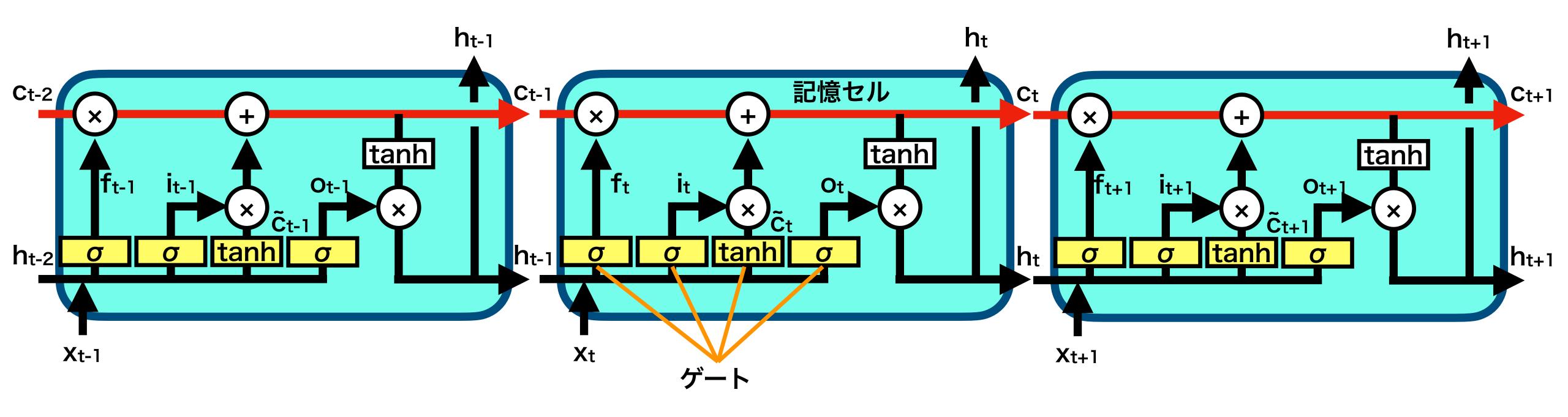


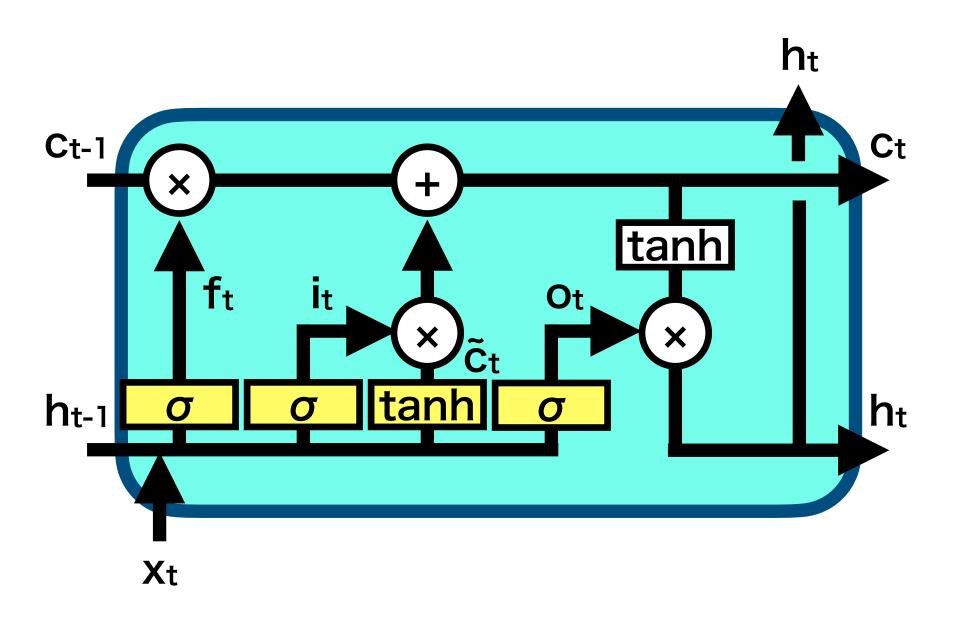


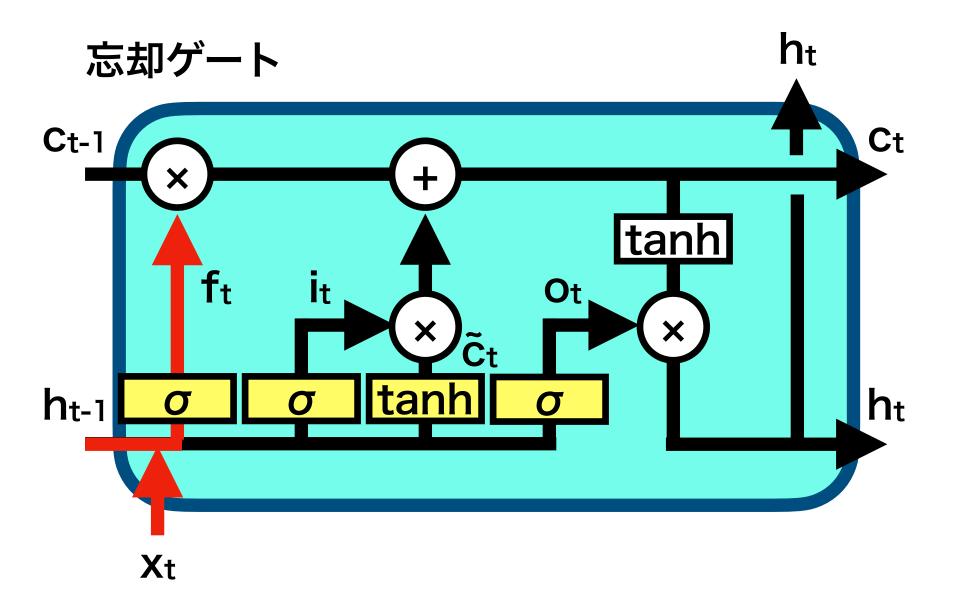


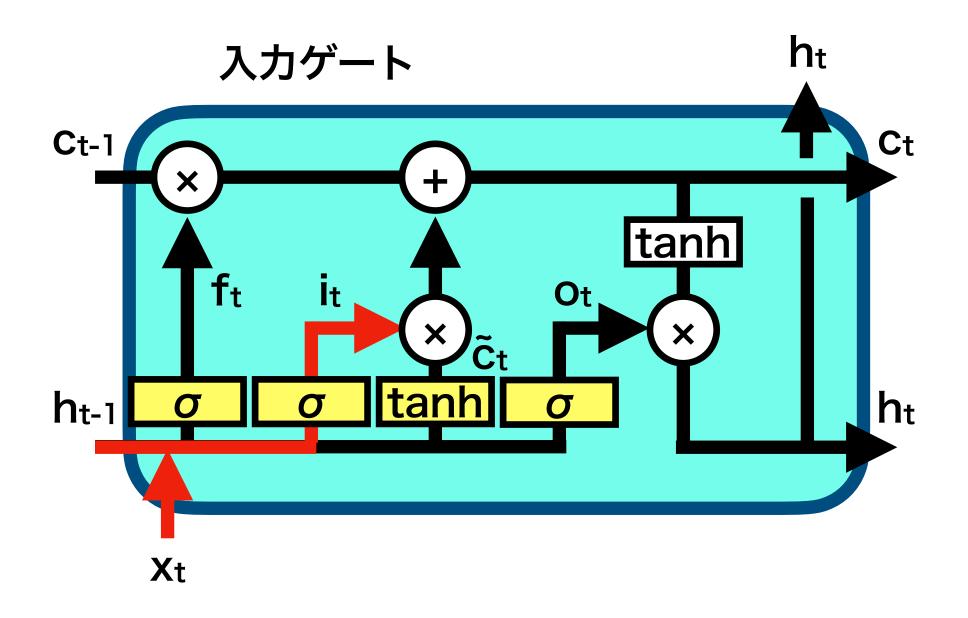


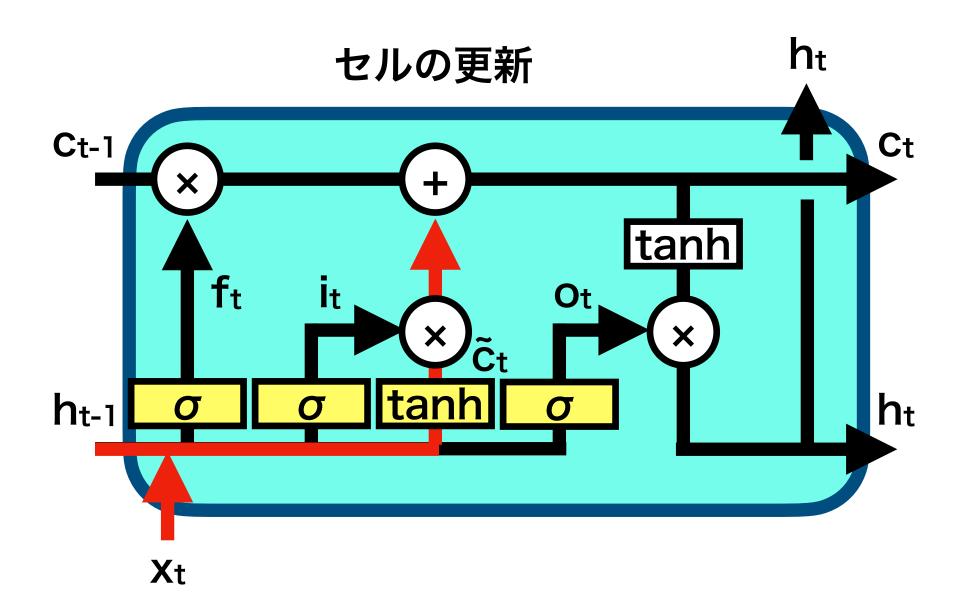


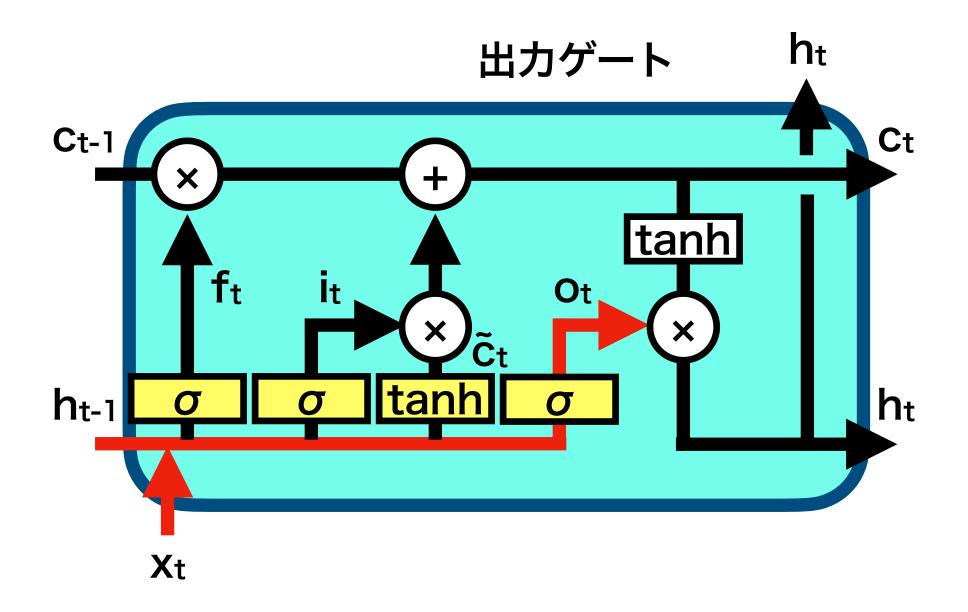


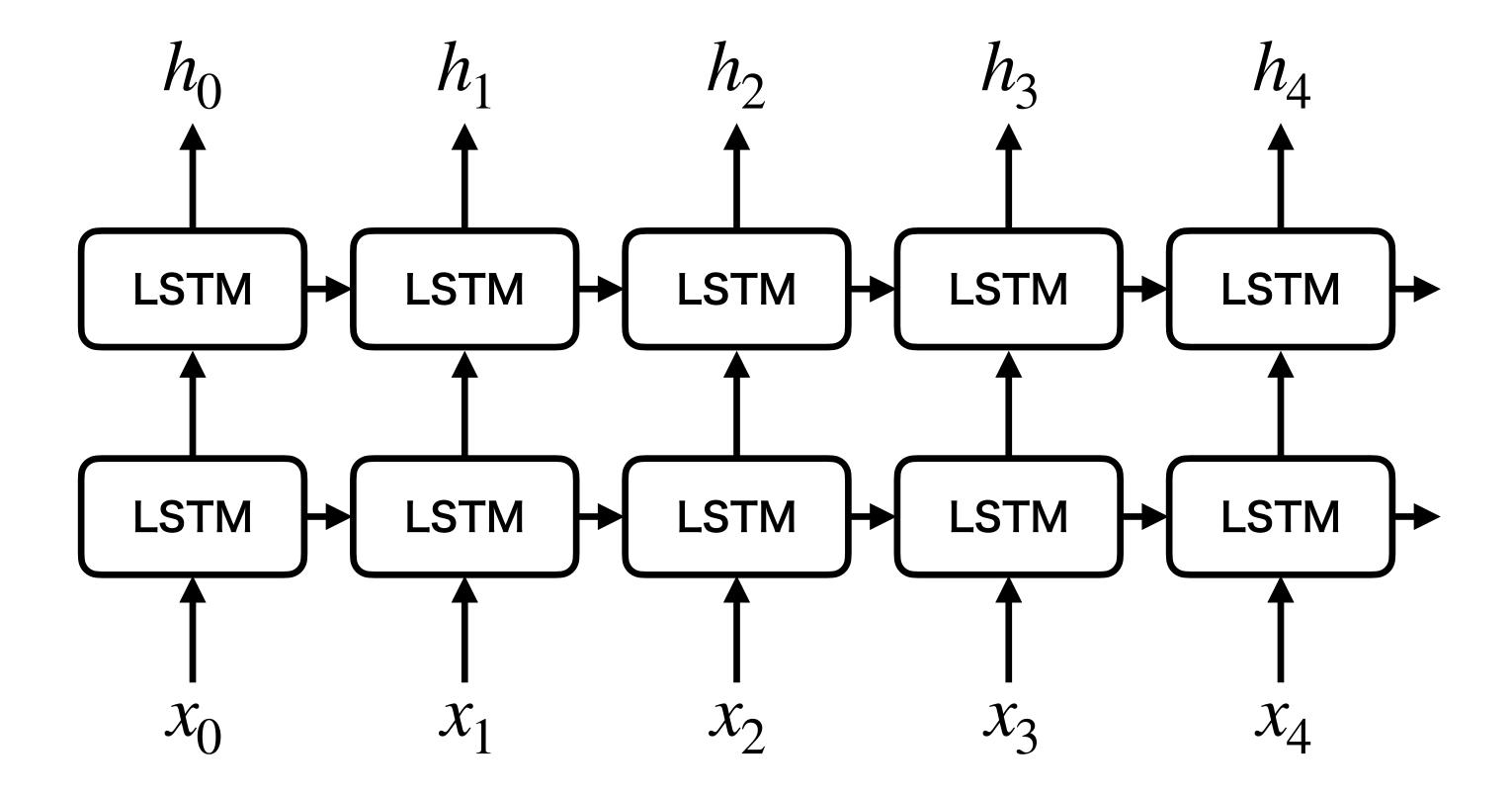


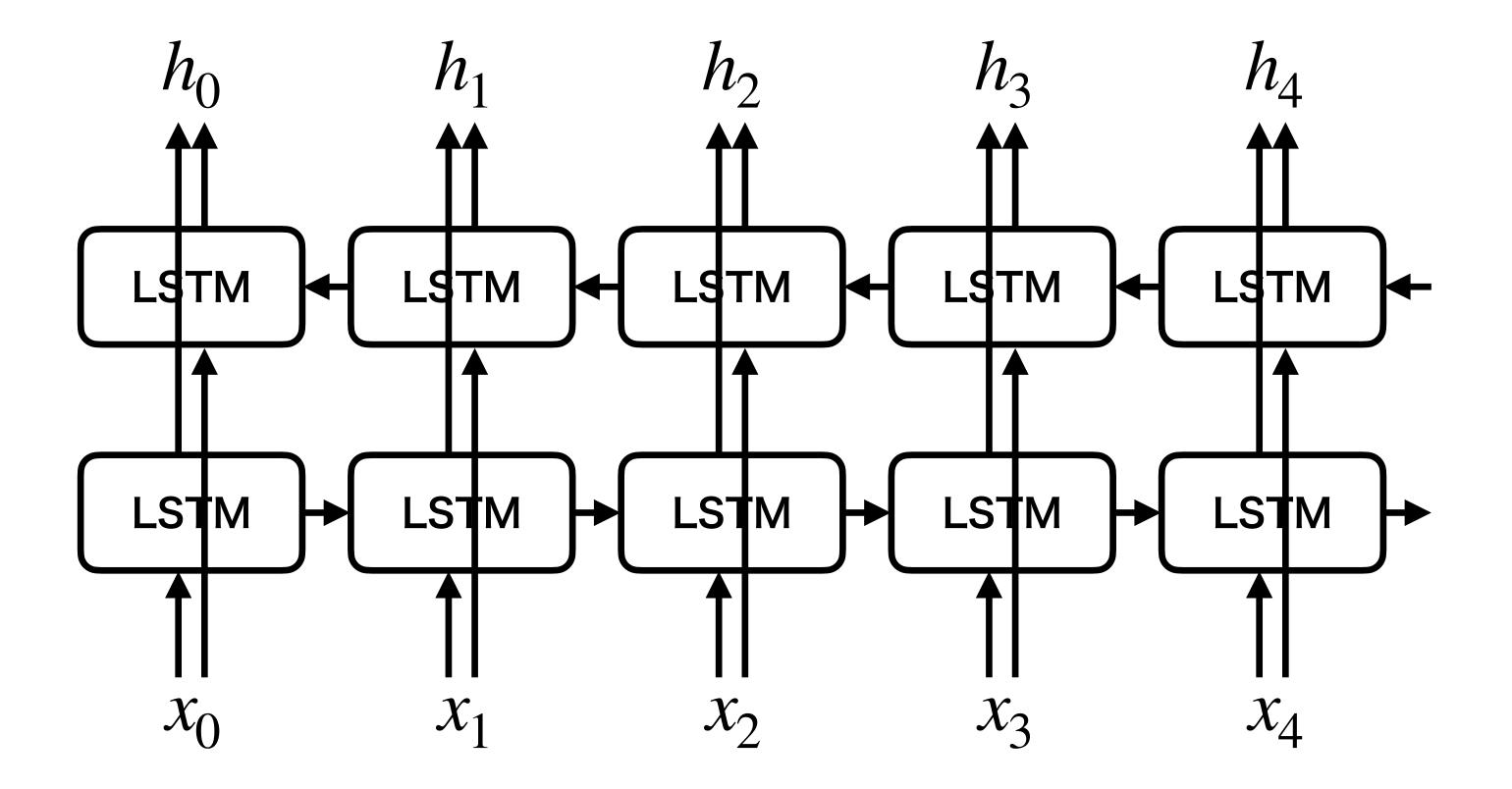


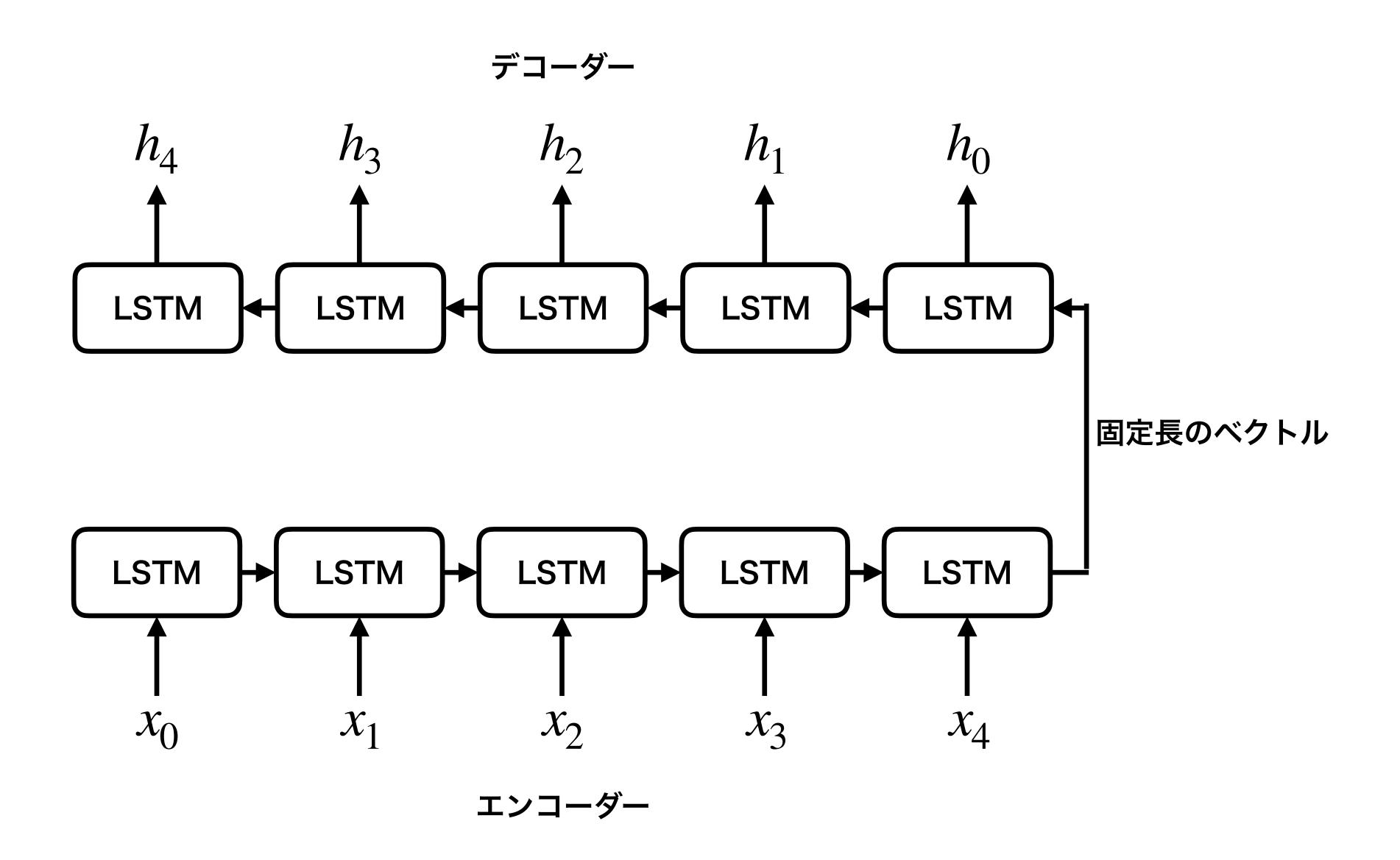


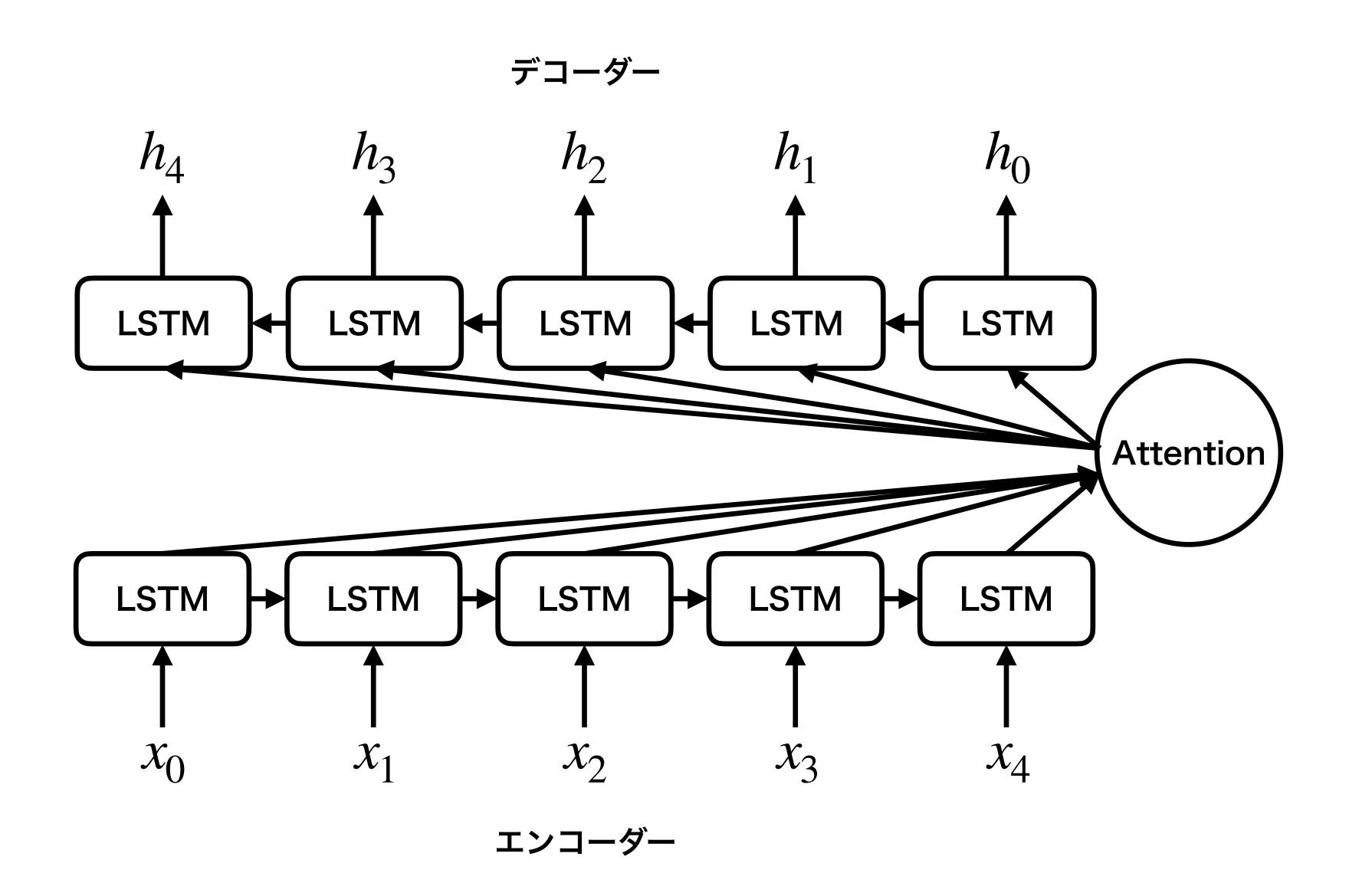


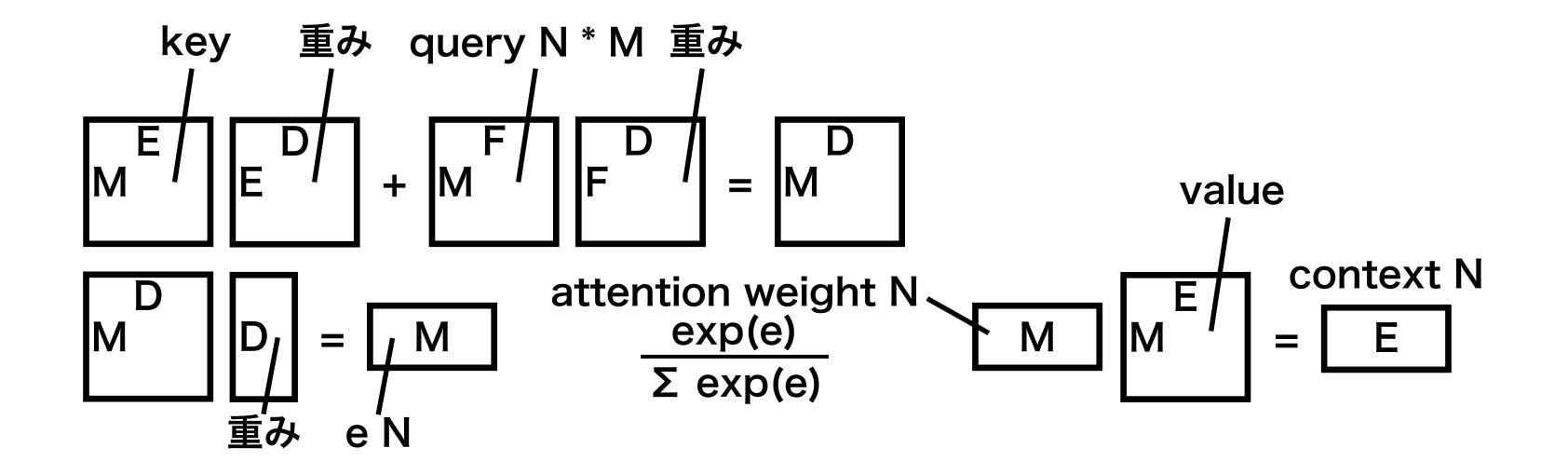




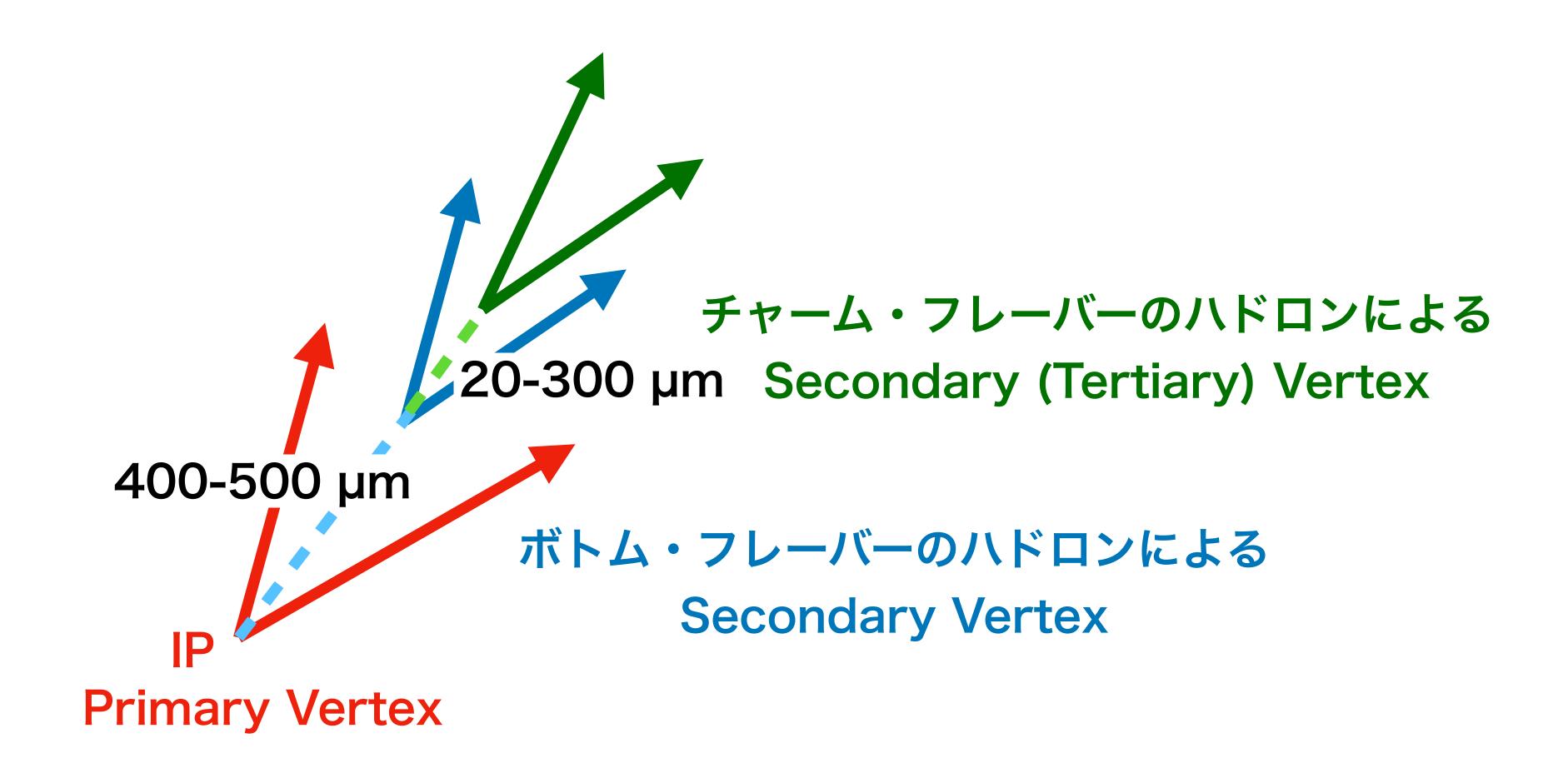








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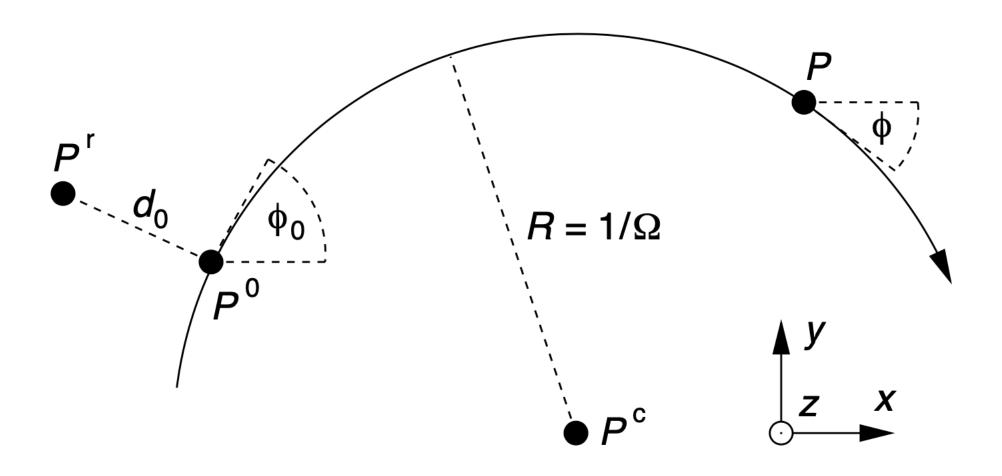
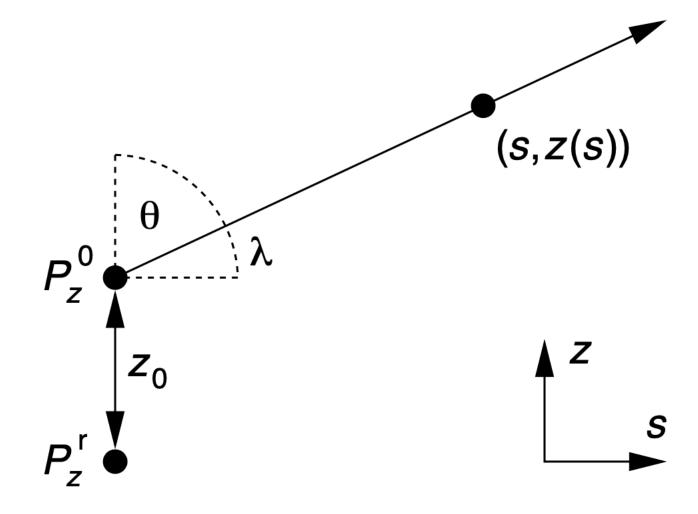
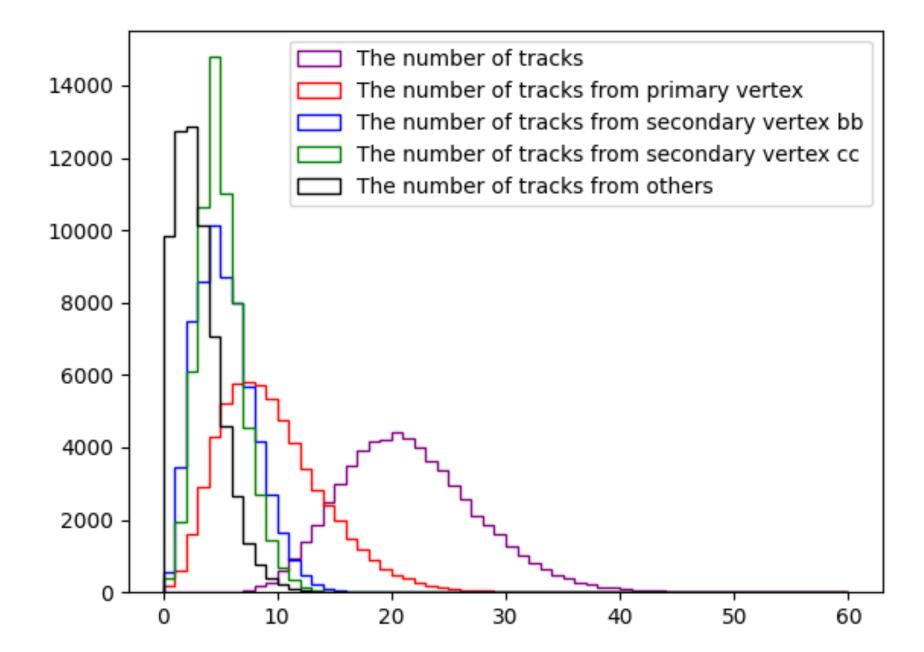
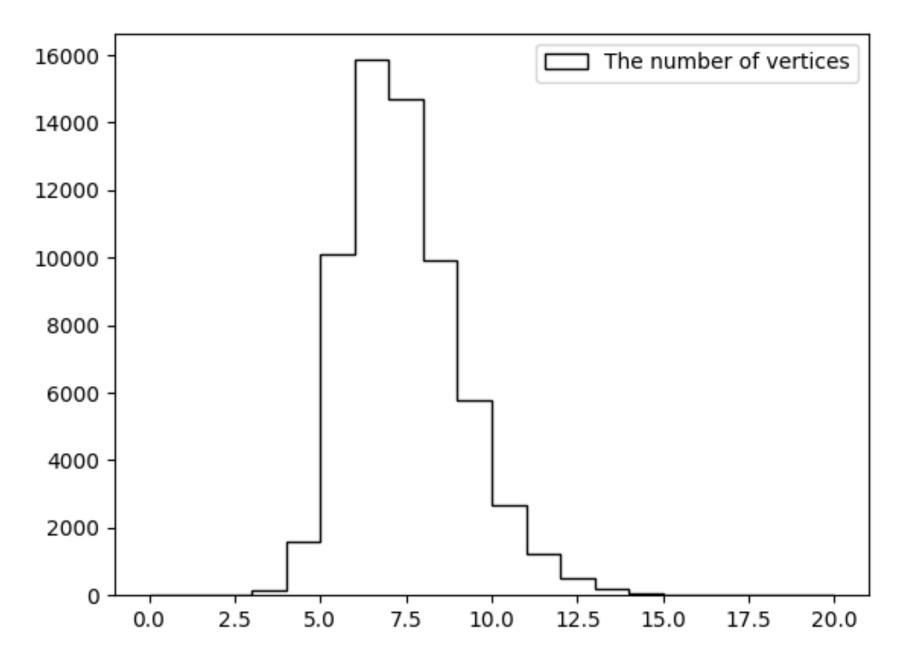


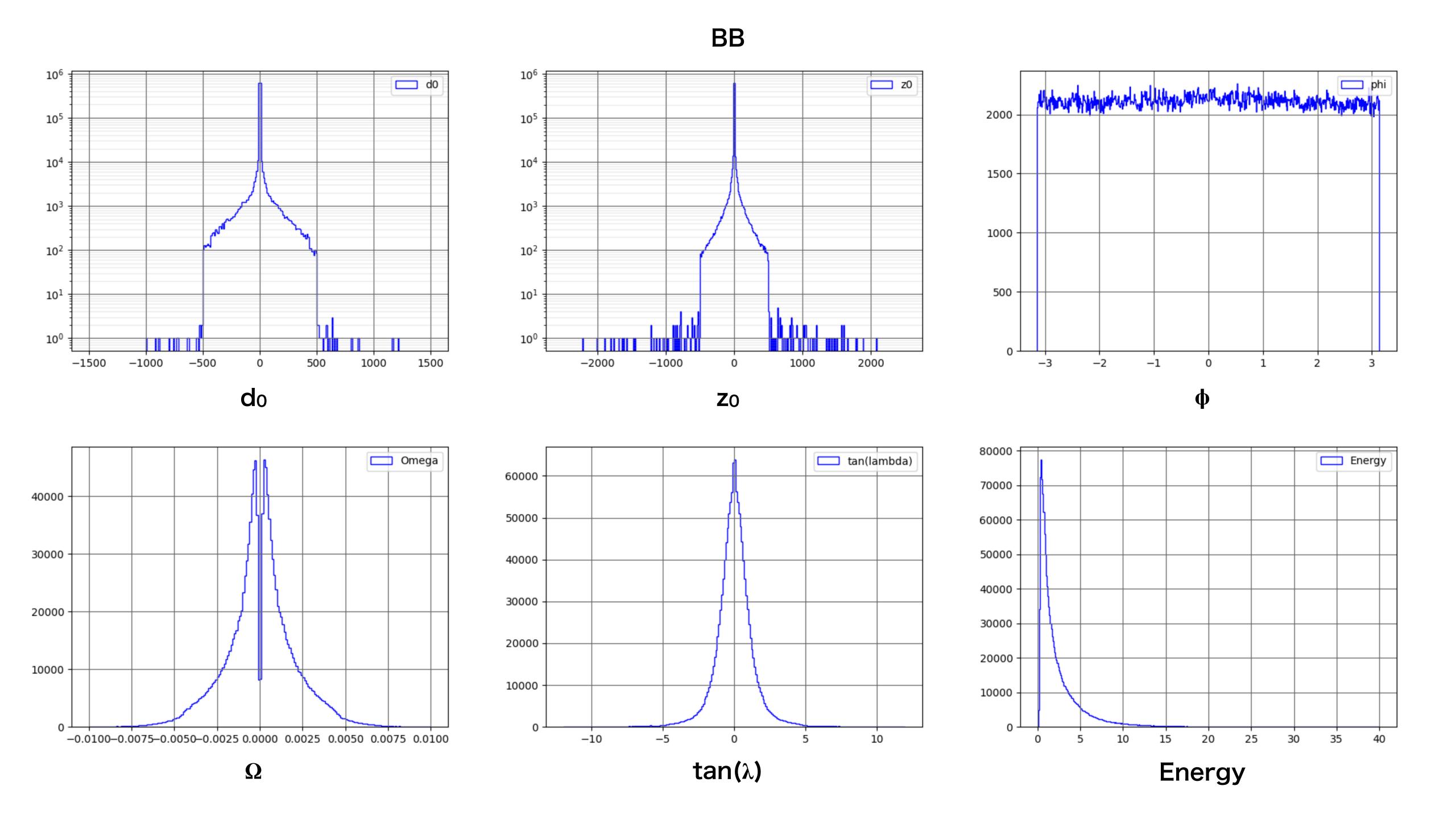
Figure 1: The projection of a helix segment in the xy plane is a part of an arc Figure 2: The projection of a helix in the sz plane is a straight line (see Eq. 10). with centre P^{c} and radius R. The direction of the particle is shown with the arrow at the arc. All track parameters are given relative to the reference point P^{r} .

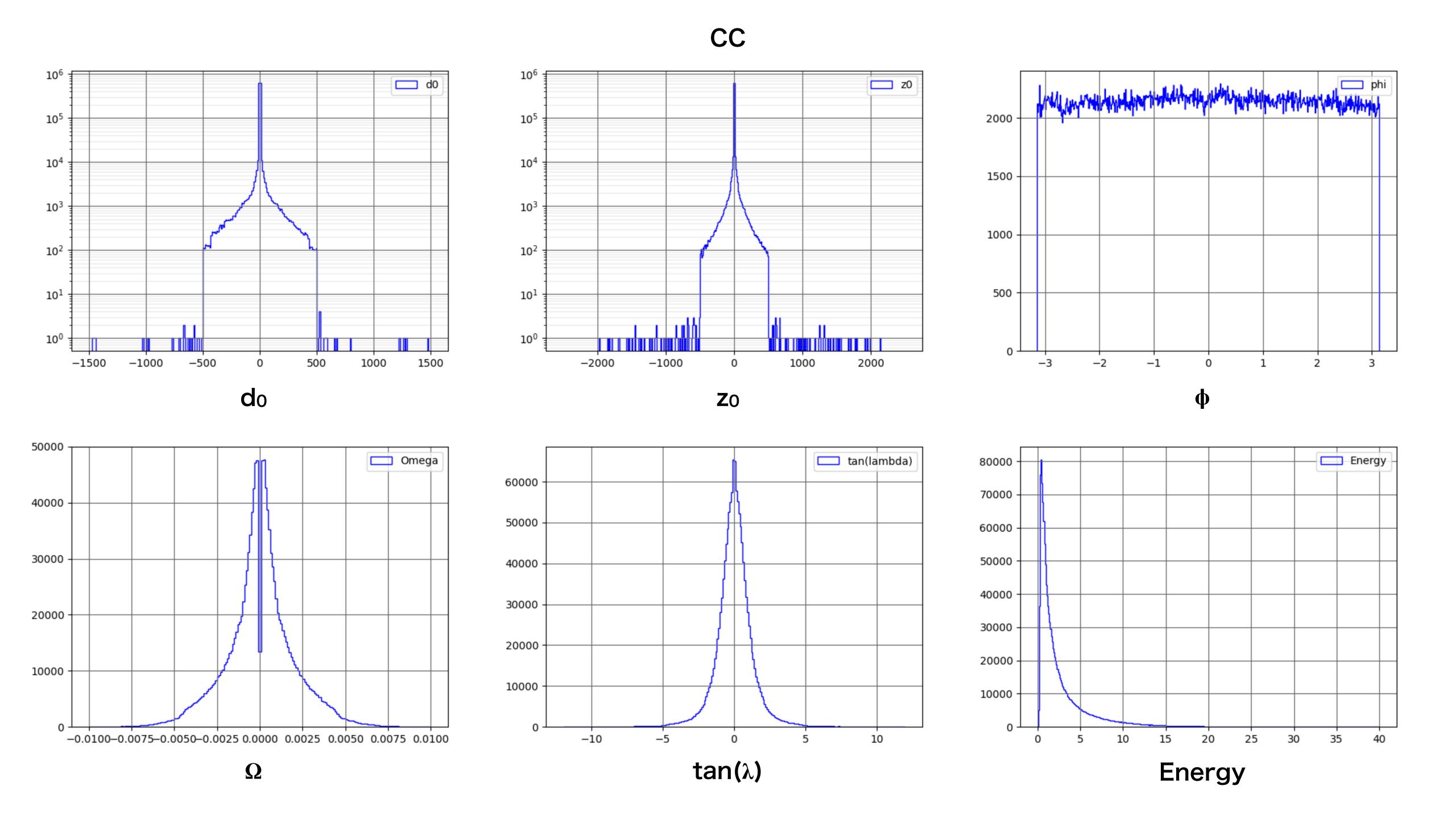


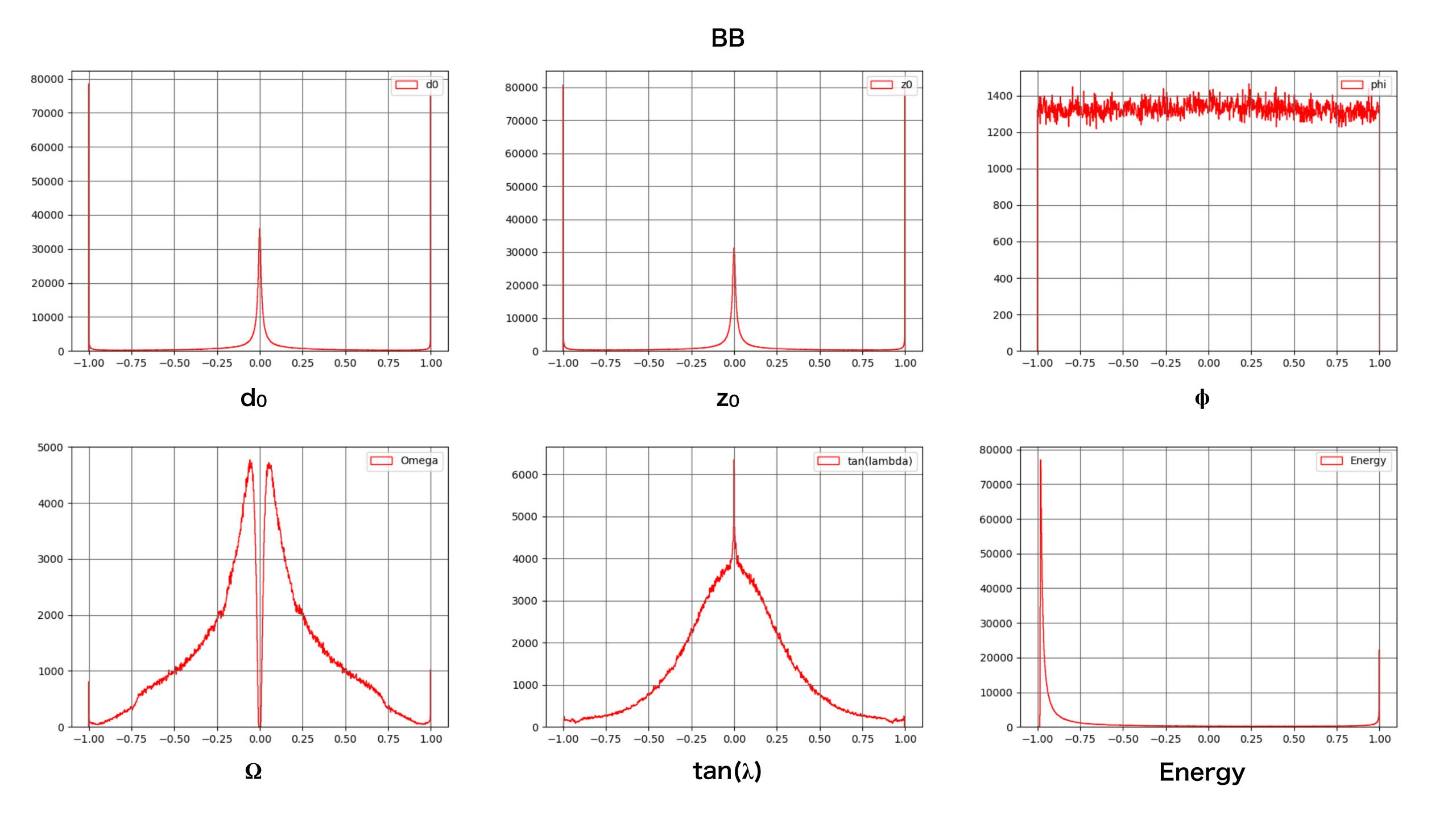
The variable s at a point \boldsymbol{P} is the arc length in the xy plane from \boldsymbol{P}^0 to **P**. This also implies that s = 0, if $z = z_0$.

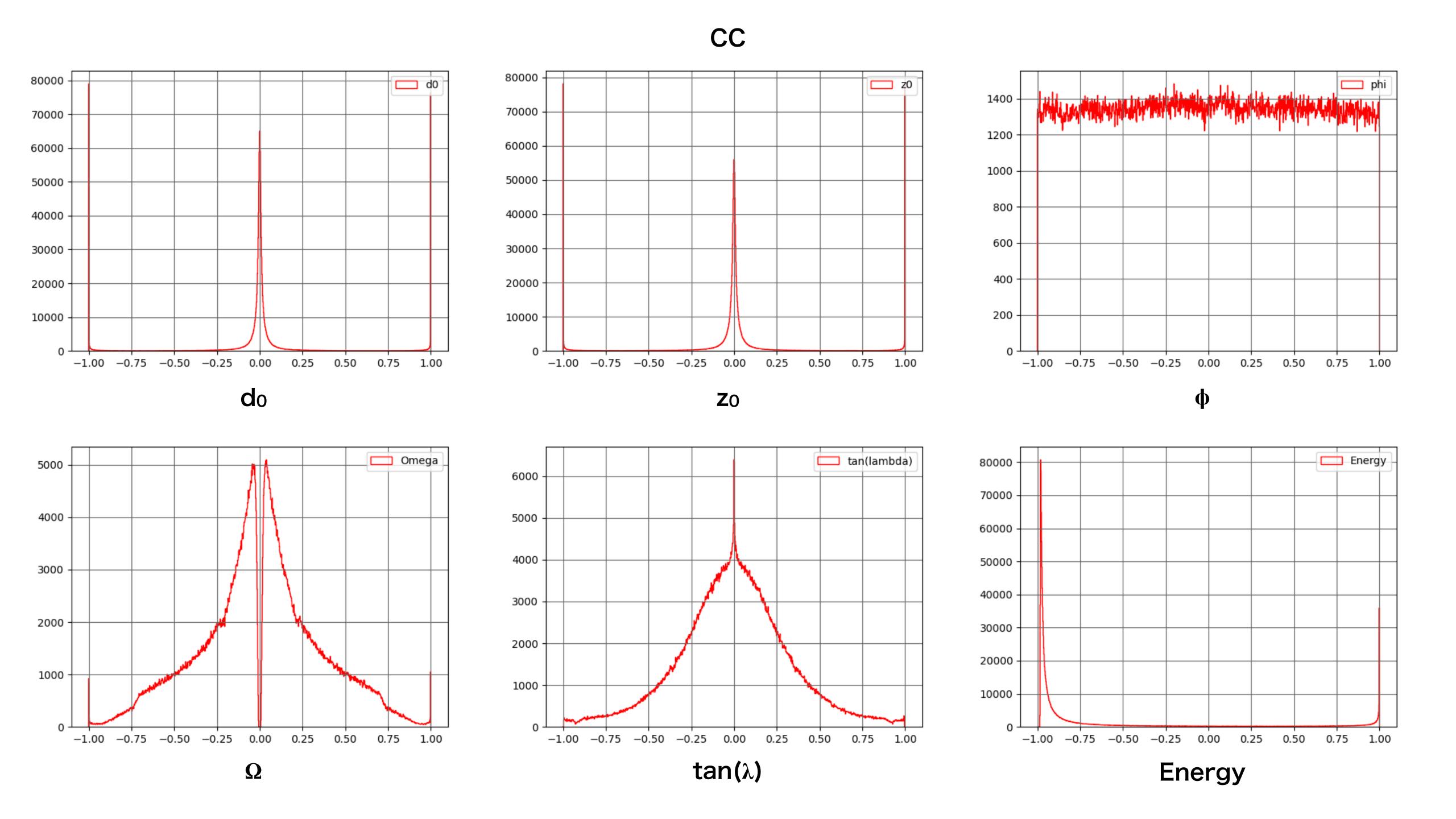


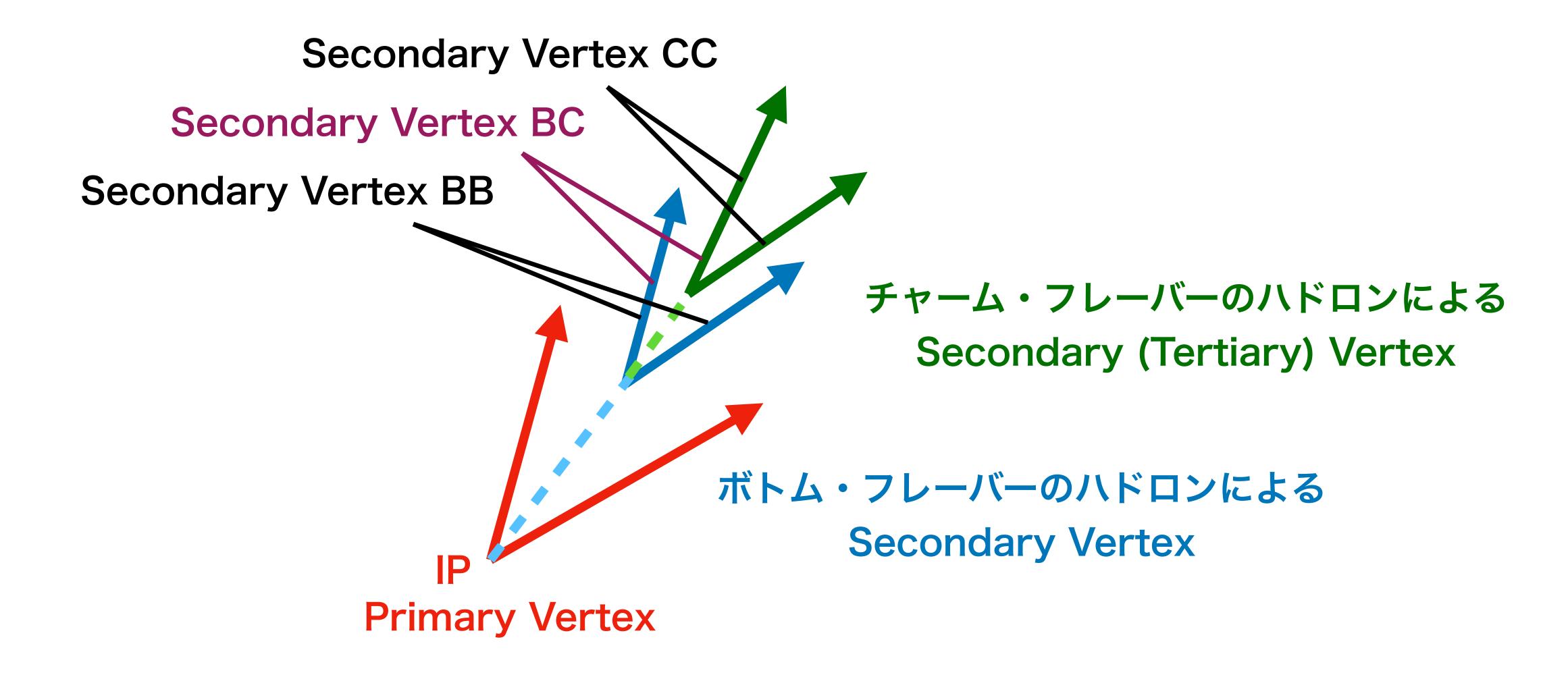


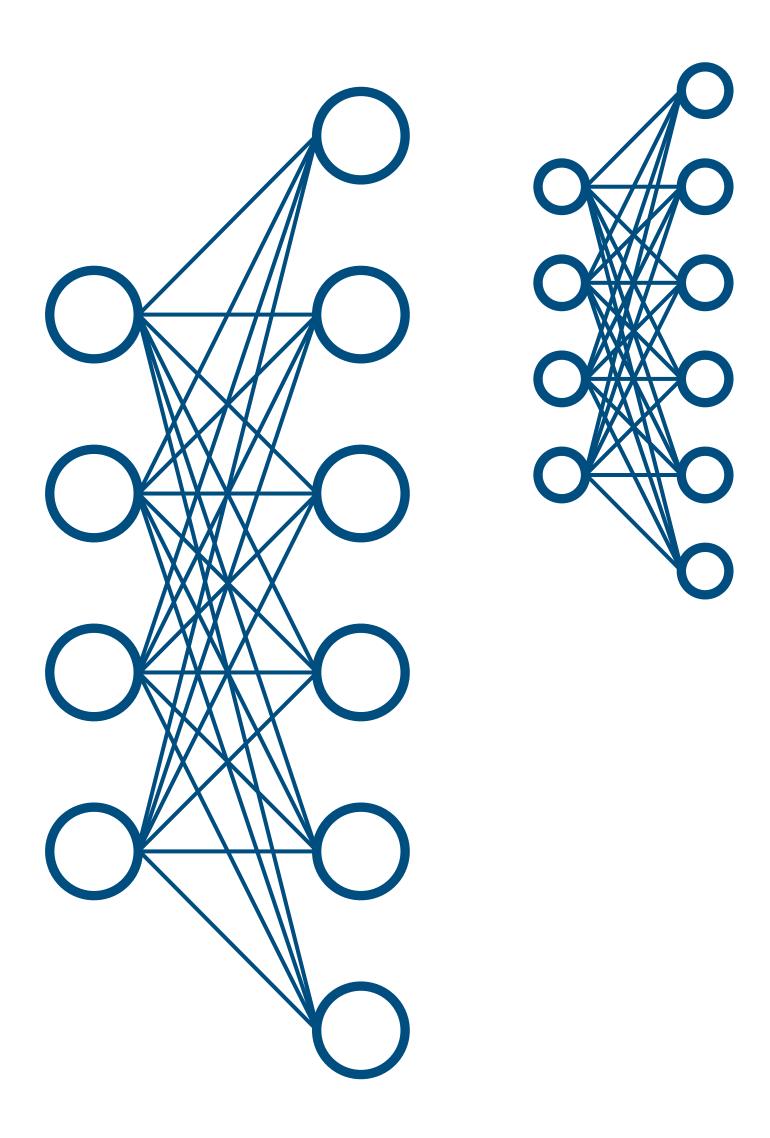












入力層 全結合層 Batch Normalization Activation (ReLU) 全結合層 Batch Normalization Activation (ReLU) 全結合層 Batch Normalization Activation (ReLU) 全結合層 出力層

崩壊点の生成

