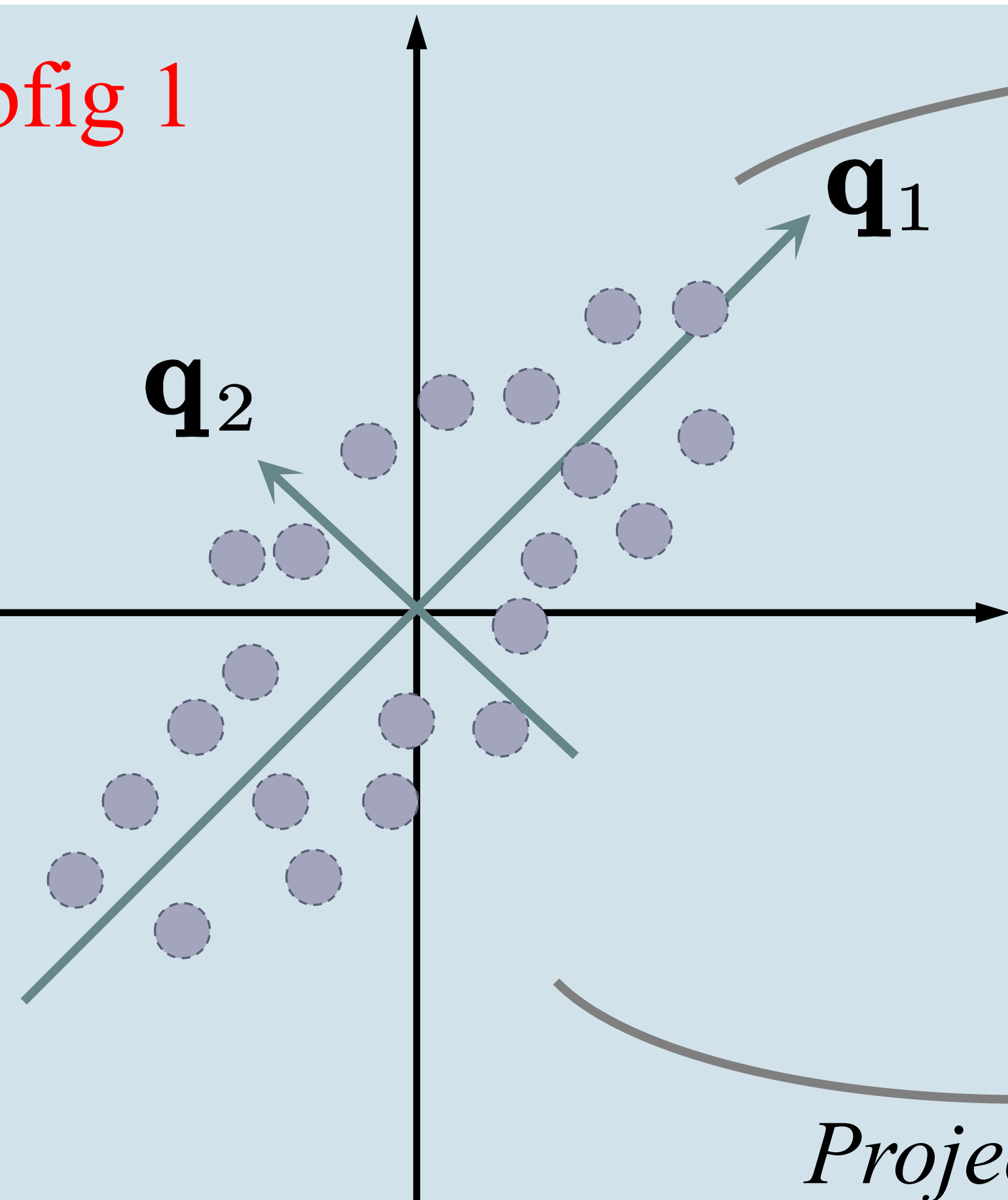
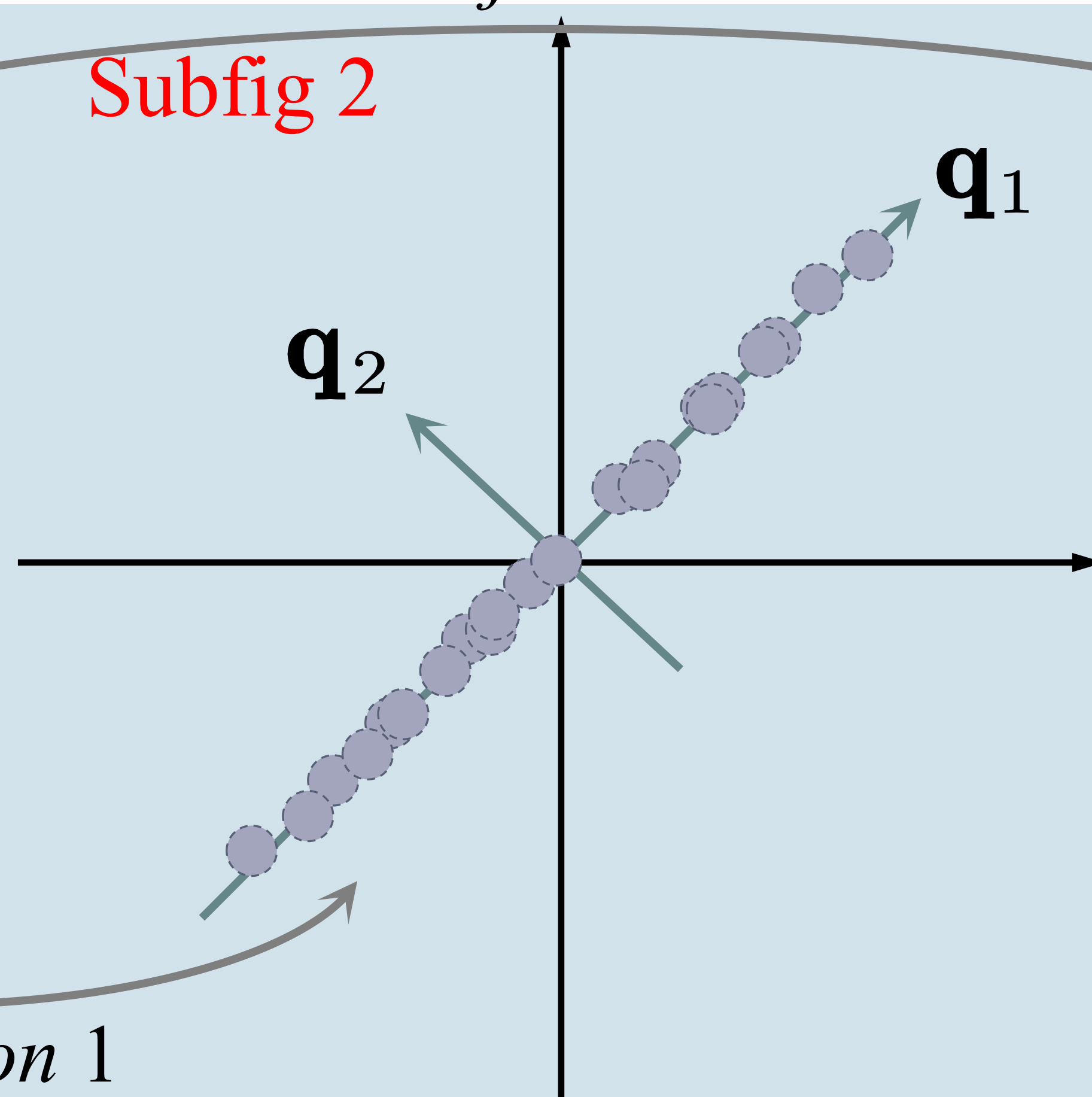


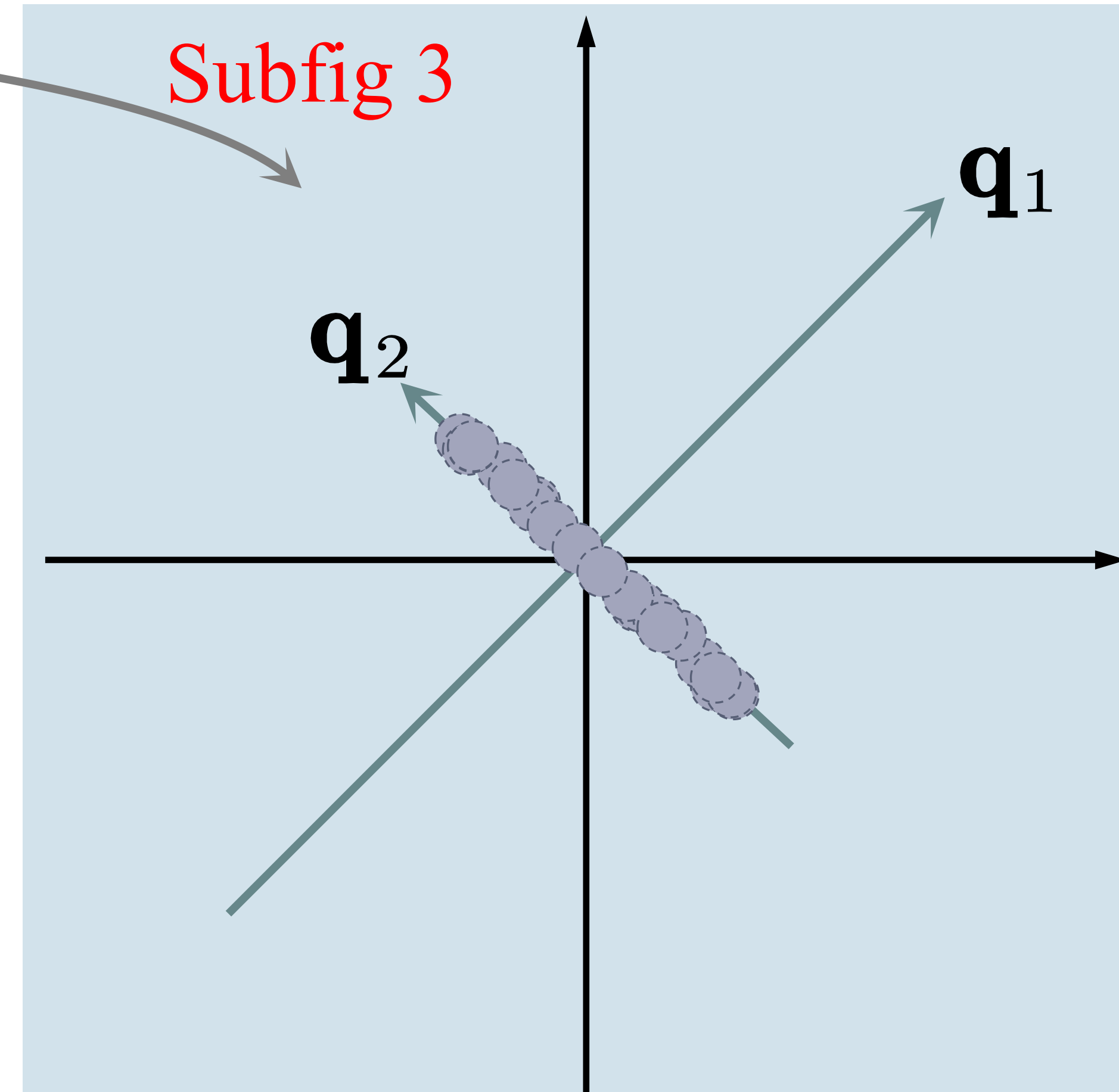
Subfig 1



Subfig 2



Subfig 3



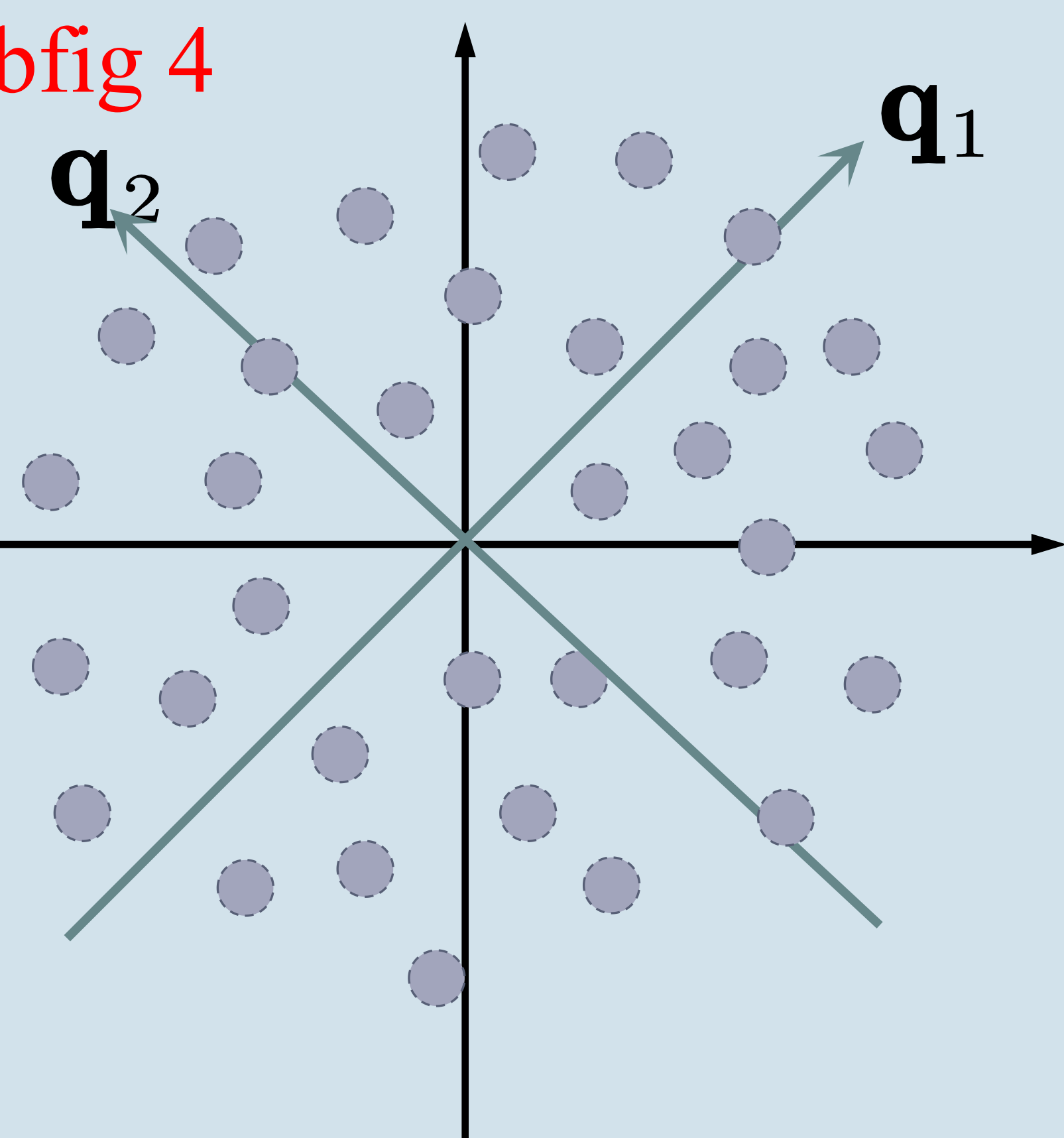
Projection 1

Projection 2

## Isotropic Constraints

driving representations to exhibit the same distribution along different spatial directions (i.e., isotropy)

Subfig 4



- As shown in Subfig 1, when dimensional collapse occurs, various dimensions exhibit certain correlations.
- As illustrated in Subfig 2 and 3, another phenomenon of dimensional collapse is that representations exhibit **different** distributions along distinct spatial directions.
- As shown in Subfig 4, if we impose constraints to make the representations exhibit **consistent** distributions along different spatial directions, then dimension collapse naturally disappears.