```
# Helper function returning tidied eigenvalue array for a matrix
.spectrum matrix <- function(P, components, norm order, singular, order, digits = 4){
 # For singular values, take P as product of the itself and its tranpose
 if(singular){P <- P %*% t(P)}</pre>
 # Get the eigenvalues of P
 eigenvalues <- eigen(P, only.values = TRUE)$values
 # Take the square root of the eigenvalues to obtain singular values
 if(singular){eigenvalues <- sqrt(eigenvalues)}</pre>
  # Sort the eigenvalues to make it an ordered spectrum
 eigenvalues <- .sortValues(eigenvalues, norm_order)</pre>
 # If uninitialized, select all orders; otherwise, use c() so singletons => vectors
 if(class(order) == "logical"){order <- 1:nrow(P)} else{order <- c(order)}</pre>
 # Return the spectrum of the matrix
 purrr::map dfr(order, .resolve eigenvalue, eigenvalues, components, digits)
```