In R you can add extra library locations (directories where your packages are installed) with the .libPaths() function. For example, to add " \sim /my/lib", you can do

```
libs <- c("~/my/lib", .libPaths())
libPaths(new = libs)</pre>
```

.libPaths().

If you want to set library locations for all workers in a cluster using the parallel package, the intuitive way of doing this is as follows.

```
libs <- c("~/my/lib", .libPaths())
cluster <- parallel::makeCluster(2)
clusterCall(cluster, .libPaths, new=libs)</pre>
```

However, this does not work. I have not spent any time figuring out why, but presumably the side effect caused by .libPaths() is sent to the wrong place. Here are the internals of

```
> .libPaths
function (new)
{
    if (!missing(new)) {
        new <- Sys.glob(path.expand(new))
        paths <- c(new, .Library.site, .Library)
        paths <- paths[dir.exists(paths)]
        .lib.loc <<- unique(normalizePath(paths, "/"))
    }
    else .lib.loc
}</pre>
```

The side effect is where .lib.loc is altered.

In any case, the following approach does work. We export the libs variable to the workers and then set libPaths() using clusterEvalQ().

```
e <- new.env()
e$libs <- c("~/my/lib", .libPaths())

cluster <- makeCluster(2)
clusterExport(cluster, "libs", envir=e)
clusterEvalQ(cluster, .libPaths(libs))...</pre>
```