Resampling Spectra

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spectrolab can resample spectra using the method resample. Since version 0.19, spectrolab uses a gaussian model that takes the Full Width at Half Maximum or FWHM to compute the spectrum values at the new bands.

Here s a quick example.

```
dir_path = system.file("extdata/svc_raw_and_overlap_matched_serbin/SVC_Files_moc", package = "spectrolad"
s_raw = read_spectra(dir_path)

new_bands = seq(400, 2400, 5)
fwhm = make_fwhm(s_raw, new_bands)
#> setting k to the number of unique band diff values

s_resamp = resample(s_raw,new_bands = new_bands, fwhm = fwhm)

plot(s_raw, lwd = 0.5)
plot(s_resamp, add = TRUE, lwd = 0.25, col = "red")
```

